



CREATING A WORLD-CLASS,
SUSTAINABLE ORGANIZATION

ANNUAL REPORT 2019



PolyOne Corporation (NYSE: POL), with 2019 revenues of \$2.9 billion, is a premier provider of specialized polymer materials, services and sustainable solutions. The company is dedicated to serving customers in diverse industries around the globe, by creating value through collaboration, innovation and an unwavering commitment to excellence. Guided by its Core and Personal Values, Sustainability Promise and No Surprises PledgeSM, PolyOne is an ACC Responsible Care[®] certified company committed to its customers, employees, communities and shareholders through ethical, sustainable and fiscally responsible principles.

CREATING A WORLD-CLASS, SUSTAINABLE ORGANIZATION

In this annual report, statements that are not reported financial results or other historical information are “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. Factors that could cause our actual results to differ materially from those implied by forward-looking statements are described in detail in Part I of the Form 10-K. Sustainability metrics represent 12-month approximate values based on available data from reporting facilities and are often made in reliance on third-party supplier information.

VISION AND STRATEGY



Our Vision

To be the world's premier provider of sustainable solutions.

Our Strategy

SPECIALIZATION

Differentiates us through unique value-creating offerings to our customers.

GLOBALIZATION

Positions us to serve our customers consistently, everywhere in the world.

OPERATIONAL EXCELLENCE

Empowers us to respond to the voice of the customer with relentless continuous improvement.

COMMERCIAL EXCELLENCE

Governs our activities in the marketplace to deliver extraordinary value to our customers.

OUR VALUES



Core Values

Collaboration. Innovation. Excellence.

These core values, which begin with our individual decisions and actions, focus our attention on putting the customer first by creating genuine value through collaboration, innovation and an unwavering commitment to excellence. We will uphold these values with the utmost integrity in all that we do.



Personal Values

Integrity. Honesty. Respect.

These personal values begin with each of us—the judgments and decisions we make as individuals affect the way PolyOne is viewed in the marketplace and in the communities where we work.

2019

Letter To Our Shareholders

Sustainability In Action: People, Products, Planet, Performance

Dear PolyOne Shareholders,

2019 was a pivotal, transformational and telling year for our great company. It was a year of many accomplishments, all of which demonstrated our commitment to creating a world-class, sustainable organization.

Sustainability remains at the forefront of our purpose. It's how we add value to our customers, protect our planet and communities, and ultimately deliver for our shareholders. It's how we meet the needs of the present without compromising the ability of future generations to do the same.

Last year we were successful in each of these regards. We did so in a challenging and unpredictable global marketplace comprised of end market and regional weakness and tariff wars that negatively impacted industry and consumer behavior. In addition, the plastic waste problem remains a priority for our world and our industry, as education efforts on the sustainable and inherent benefits of polymers run in parallel with collaborative work to eliminate plastic waste.

With that as the backdrop, our committed PolyOne associates around the world went to work...and delivered! We achieved \$1.69 of adjusted earnings per share, a 12% increase over 2018. We kept safety first, used service as our timeless differentiator, and executed our proven four-pillar strategy. We also completed the divestiture of Performance Products & Solutions (PP&S) and announced an agreement to acquire Clariant's Masterbatch business. With these two truly transformational shifts in portfolio, we now expect more than 85% of our EBITDA to come from specialty applications.

The year well represented how PolyOne lives our brand, accepting the challenges of today and tomorrow. We put our innovative thinking and tireless work ethic in motion, and we find a way to win.

That's what great companies do.

So as we reflect on the past year—and more importantly, as we look to the future—we do so with a great sense of pride and optimism. This is captured throughout our recently published Sustainability Report and this Annual Report, which summarizes contributions in each of our four cornerstones of sustainability: People, Products, Planet and Performance.

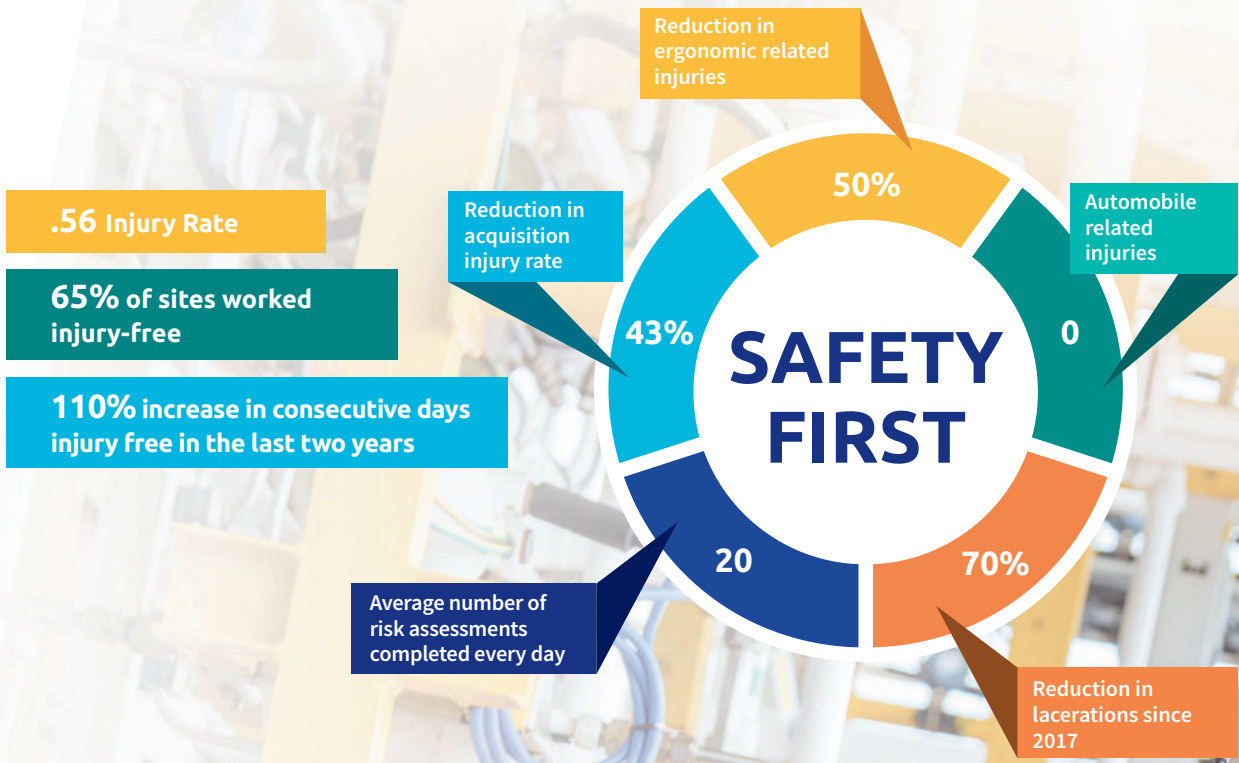
Meeting the needs of the present without compromising the ability of future generations to do the same.



PEOPLE



PolyOne associates in our Knowsley, UK facility organized a beautification clean up event at Ainsdale Beach near Liverpool in September 2019.



Our “safety first” culture has been built and refined over years of discipline, awareness and a commitment to reducing risk wherever we see it. This continued in 2019, and our 0.56 injury incident rate remained world-class in our industry. Although just slightly higher than last year, I’m pleased that the severity of our injuries decreased, our most common injury historically is decreasing, and on two occasions we set new records for most consecutive days globally without a recordable injury.

As an ACC Responsible Care® company, our goal remains zero injuries. That’s why we continue to focus on risk reduction through our global R3 initiative.



With our focus on People, it has led to the creation and expansion of Employee Resource Groups (ERGs) at PolyOne to advance diversity and inclusion. The vision that guides their efforts is consistent and unwavering: To be the company of choice for all.

LEAD by Women, PRIDE at PolyOne and HYPE are each associate-led ERGs that provide programming, education, awareness and development opportunities for our global workforce. We utilize a mix of in-house expertise, workshops, communications, and external thought leadership to help us fully value the unique differences that each of us brings to the workplace. ERG programming in 2019 focused on mental health and wellness, unconscious bias, workstyles and self-awareness.

These efforts not only improve our company and culture, but they are also being recognized by leading advocacy groups. For example, in just our second year participating, we are proud to have earned a perfect score of 100 on the Human Rights Campaign Foundation’s most recent Corporate Equality Index, which has designated PolyOne a “Best Place to Work for LGBTQ Equality.”

Having a culture that is diverse and inclusive is not only the right thing to do, but the smart thing to do—as some of the most diverse companies in the world are also among the best performing.

We continue to promote both physical and mental health and wellness with every PolyOne associate. We do this through our safety focus, benefits, and lifestyle programs. In our largest annual event, we again hosted the PolyOne Global Fun Run and Walk. More than 3,500 associates in 44 events taking place in 22 countries participated in a physical activity focused on promoting healthy lifestyles and encouragement.

Photos: (Right) PolyOne associate wellness events in Belgium and the United States. (Bottom) Second annual Global Fun Run and Walk, in Suzhou, China.



LEAD | BY WOMEN

PRIDE
at POLYONE

HYPE | HARNESSING
YOUNG PROFESSIONAL
ENERGY



PolyOne's commitment to our associates resonates, as we recruit top talent from global institutions of higher learning. More than 130 new associates from over 25 different colleges and universities joined our team in 2019. Some hire into our rotational leadership development programs offered in multiple functions such as sales, technology, marketing, supply chain, IT or finance.

For our existing workforce, the leadership development opportunities continue to abound. Our hallmark in-house leadership curriculum has now graduated over 300 of our associates through the highly coveted NextGen and PolyMasters programs. Our graduates immediately put their new leadership skills into action to serve our customers. And in 2019 these leaders also focused internally, as six years of NextGen alumni collaborated to create and launch ENGAGE, a new initiative that helps better connect our associates at every PolyOne manufacturing site around the world to PolyOne's important purpose, culture and impact on sustainability.

While the expansive work we're doing to contribute to the People cornerstone of sustainability is important, we must ensure our efforts are continually improving our culture—most importantly in the eyes of our greatest asset, PolyOne associates. One scorecard we use is our employee engagement survey. In 2018, we received our first-ever Great Place to Work recognition from the Great Place to Work Institute. This year, we took an interim engagement survey that collected our associates' feedback in similarly themed areas that are required to build a high-trust organization. Proudly, in nearly every category, we improved over 2018!

The clear momentum and engagement we have within our organization internally is underpinning the contributions we are making in Products, Planet and Performance.



ENGAGE



PRODUCTS



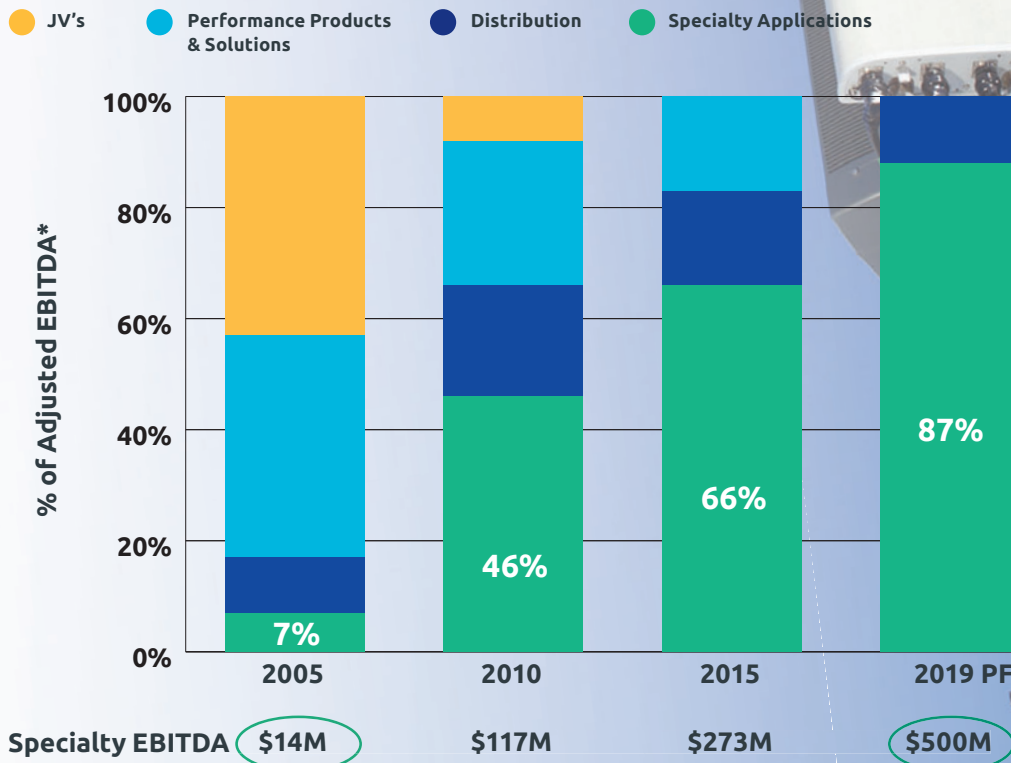
Since 2006 when we began our transformation to become a specialty company, we have been refining our portfolio of solutions and services to best serve our customers. We have done this successfully through mix improvement, innovation and M&A. Yet no single year in our company's history did such a monumental specialty portfolio transformation take place than in 2019.

In October, we divested our PP&S segment, which consisted predominately of the Geon® vinyl business, for \$775 million. Two months later in December, we announced a definitive agreement to purchase Clariant's Masterbatch business, a landmark acquisition and a watershed moment for our company. The acquisition is anticipated to close later this year, after which the opportunities will be limitless on the sustainable innovation we can bring to our customers, our industry and our world.

While the Clariant announcement captured headlines to close out 2019, successes within our Products cornerstone began at the onset of the year. In January we acquired Fiber-Line, a global leader in customized engineered fibers and composite materials that serves the fiber optic cable, oil & gas, industrial and consumer industries. Not only did it immediately establish PolyOne as a leader in this growing industry, it also performed exceptionally well for the year.



Over 85% of Adjusted EBITDA from Specialty



* Adjusted EBITDA is EBITDA excluding corporate costs and special items
 **2019E Pro Forma for the acquisition of Clariant's Masterbatch business with synergies of \$60M and the divestiture of our PP&S segment using 2018 financial information

Innovating materials that enable our customers' sustainability goals remains a differentiator for PolyOne. To take our innovation and stewardship to an even higher level, last year we appointed respected industry leader Walter Ripple as our first Vice President of Sustainability. We also established a Sustainability Council that is global in reach, impassioned in its work and has the overarching mission to enable our customers' sustainability goals.

We have eight primary ways we do this, by combining our material science expertise with the inherent sustainable benefits of polymers. We've built a sustainable solutions portfolio of unique technologies, and it's growing exceptionally well at a compounded annual growth rate of 14% since 2016.

Eight ways we help customers meet their sustainability goals through material science:



Lightweighting



Reduced Energy Use



Volatile Organic Compound Reduction



Improved Recyclability



Bio-derived Content



Eco-conscious Composition



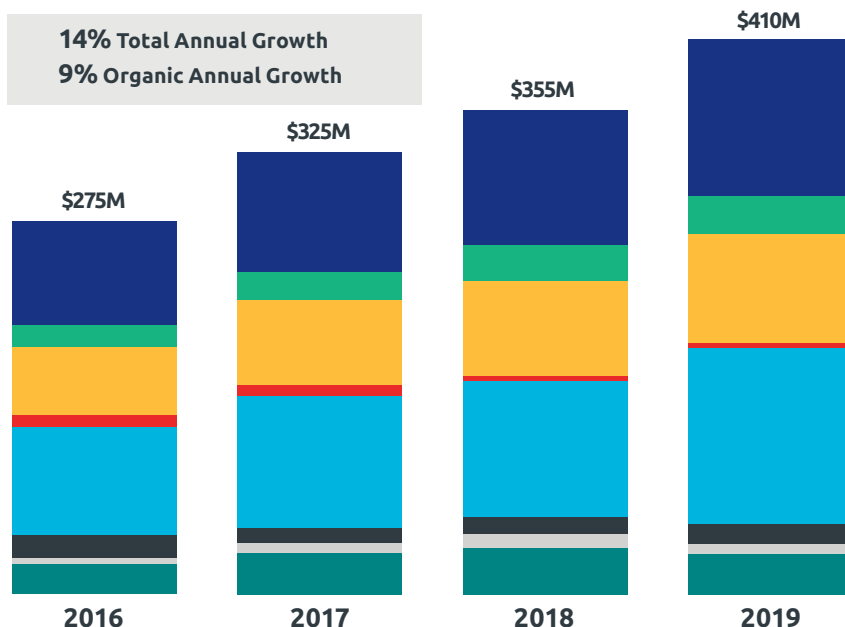
Renewable Energy Applications



Reduced Material Requirements

Revenue from Sustainable Solutions* 2016–2019

- Lightweighting
- Improved Recyclability
- Eco-conscious Composition
- Reduced Energy Use
- Reduced Material Requirements
- Renewable Energy Applications
- Bio-derived Content
- Volatile Organic Compound Reduction



*PolyOne Sustainable Solutions definitions aligned with FTC 2012 Guide for the Use of Environmental Marketing Claims ("Green Guides")

Of particular note, our high-strength composites that enable lightweighting and barrier additives that reduce material requirements and increase shelf life both performed exceptionally well. These were strategic investment areas for our company beginning several years ago. Composites and additives are delivering today, and we expect they will continue to grow well into the future.

Innovation is made possible through our prior investments to build deep material science expertise on our team, and since 2014, we have increased our technical resources by 33%. They collaborate with our broader commercial team to ensure our customers can solve their most pressing challenges with the speed to market, quality and service levels they demand—anywhere in the world.

Global product development, quality and service also require world-class facilities and infrastructure to produce materials, and we invest accordingly. Last year we broke ground on a new manufacturing and R&D facility in Chuzhou, China, in the Anhui province. Despite the geopolitical climate and frequent discord, global markets remain key to our customers, so they are to us as well.



Photos: Last year PolyOne broke ground on a new manufacturing and R&D facility in Chuzhou, China.

To measure the health of our innovation capabilities and portfolio we use a Vitality Index, which is the revenue generated from products that have been in the PolyOne portfolio for less than five years. For 2019, our Vitality Index increased to 37%, a world-class level and one we will look to build upon as our innovation efforts accelerate.

37% of specialty sales
FROM PRODUCTS INTRODUCED
IN THE LAST 5 YEARS



No Surprises PledgeSM

At PolyOne, we are committed to helping you grow your business with safe and environmentally sound solutions. This commitment is exemplified by our No Surprises PledgeSM which we make to all customers and markets, across the globe.

- You can be confident that, in formulating and manufacturing our materials, we use sustainable practices to provide long-term product viability and sound environmental stewardship
- You can expect that the materials we produce contain only ingredients that conform to accepted legal and regulatory compliance guidelines
- You can trust that PolyOne materials meet the rigorous quality and safety management standards required across the globe
- You can be certain that PolyOne meets or exceeds the material safety data reporting requirements of your country or region
- When you choose PolyOne, you can be confident our products will help you meet or exceed today's stringent compliance standards

PLANET



The need to take care of our precious planet has never been more important. Governments, industry and consumers each must take accountability and play active roles to achieve sustainability. For PolyOne, we take responsibility many ways, through both clean-up efforts as well as efficiency and continuous improvement in our operations.

Lean Six Sigma (LSS) is at the heart of our Operational Excellence strategic pillar, and was first introduced back in 2009. Today, the lean methodology is fully engrained in our company and is used for continuous improvement in every function and business. More than 3,400 active associates have been trained in LSS and at any given time there are approximately 450 process improvement projects underway. These and other projects benefit the planet by minimizing the amount of natural resources required to safely manufacture, transport and ensure first-time quality material to our customers.

With softer demand conditions driving lower production, intensity metrics for the most part increased compared to 2018. However, we continued to implement innovative waste minimization and

energy savings projects that greatly reduced our overall environmental footprint. Total water use decreased 23%, and waste generated decreased 19%. Approximately 60% of our waste last year was recycled or beneficially used.

In 2019, we published our first Sustainability Report, and I encourage you to read it. It's a comprehensive showcase of our full breadth of sustainability activity, including detailed information on the environmental performance metrics and projects underway so that we may continually improve our process, and as a result minimize impact on the planet.

One such way is through utilizing renewable energy sources when possible. In prior years, we've installed rooftop solar panels and windmills to offset energy demand, and we plan to continue those practices going forward. In addition to on-site renewable energy infrastructure, we are actively working to procure energy from green sources in an effort to reduce our greenhouse gas intensity. Our goal is to implement procurement practices over the next three years that will eliminate 45,000 metric tons of Scope 2 carbon dioxide emissions annually.

Total Water Use



Total Waste Generation



Total Waste



Reportable Releases



Photos: Solar Panels at Pune, India (above) and Windmills at Assesse, Belgium facilities (below)



While these are important preventative measures that protect our natural resources, we're also committed to fixing problems related to plastic waste in the environment. That's why in January of 2019 we were very proud to have joined the Alliance to End Plastic Waste (AEPW) as a founding member.

The high level of attention, engagement and collaboration among member CEOs has been instrumental in AEPW's very first year. It's inspiring to see the cross value chain activities taking shape, and I believe we are on an encouraging path to ultimately solve the plastic waste problem.



INFRASTRUCTURE INNOVATION EDUCATION CLEAN UP



Photos: PolyOne Associates in Åland, Finland (top) and Bangkok, Thailand (bottom) participate in local waste clean up events to help protect the planet and improve lives in the communities where we do business.



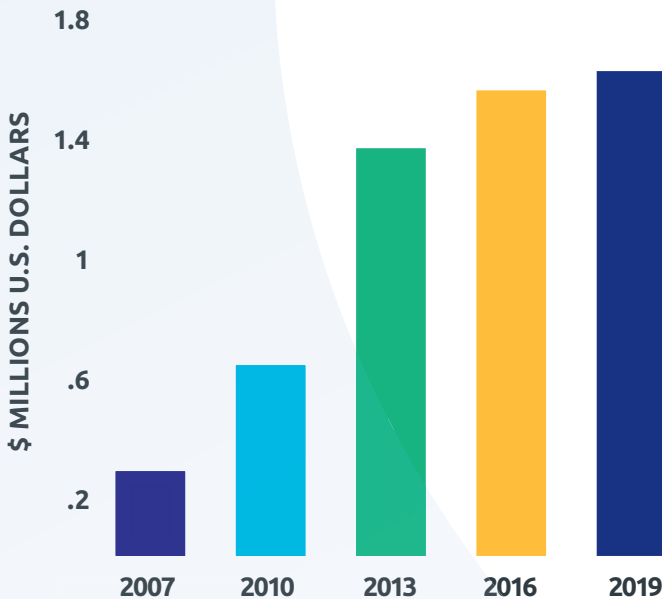
Our community service work extends well beyond our important clean-up efforts. In fact, we provide every PolyOne associate 16 hours of paid time off each year to volunteer for a cause they are most passionate about. 2019 saw our employees giving of their time and talents around the world to help build libraries, mentor youth, organize blood drives, and teach financial literacy skills, just to name a few.

United Way remains our largest philanthropic endeavor, and our associates continue to give generously. Since 2007 we have raised more than \$14 million for United Way chapters throughout North America.



\$14M+

For United Way Since 2007



Photos: (Top) Donating their time to mentor local youth, PolyOne associates in Pommerloch, Luxembourg increase self-esteem and inspire the importance of giving back in their community.

(Middle) By making blankets and toys for a local animal shelter in Elyria, Ohio more than 30 associates made a positive impact through volunteerism.

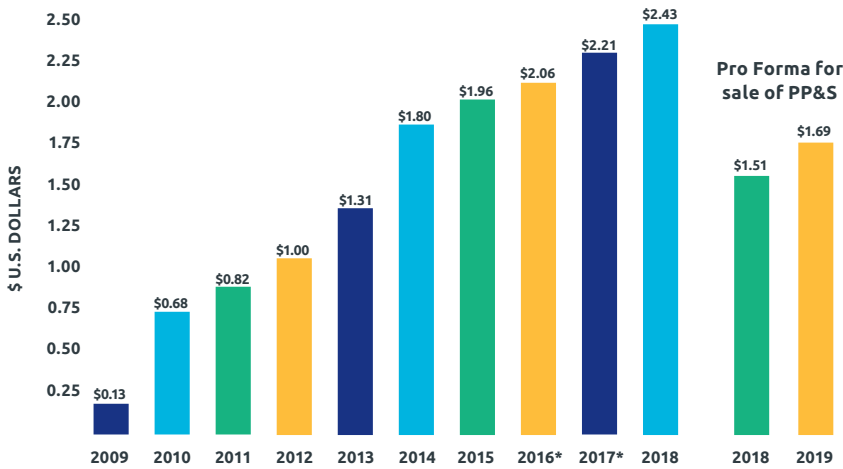
(Bottom) Thanks to our team in Pune, India, 225 trees beautified the landscape and improved sustainability in the Ranjangaon Industrial Area near our facility.

PERFORMANCE

The background features a large, semi-transparent circular graphic containing a complex data visualization. This visualization includes a bar chart with orange bars of varying heights, overlaid with a white line graph that has blue circular markers at its data points. The entire scene is set against a dark blue background with a grid pattern and faint, glowing green binary code (0s and 1s) scattered throughout, suggesting a digital or data-driven environment.

For 2019, we delivered \$1.69 of adjusted EPS, a 12% increase and the 10th consecutive year of expansion. It's a remarkable streak that we are proud of, yet still fueled and compelled to build upon.

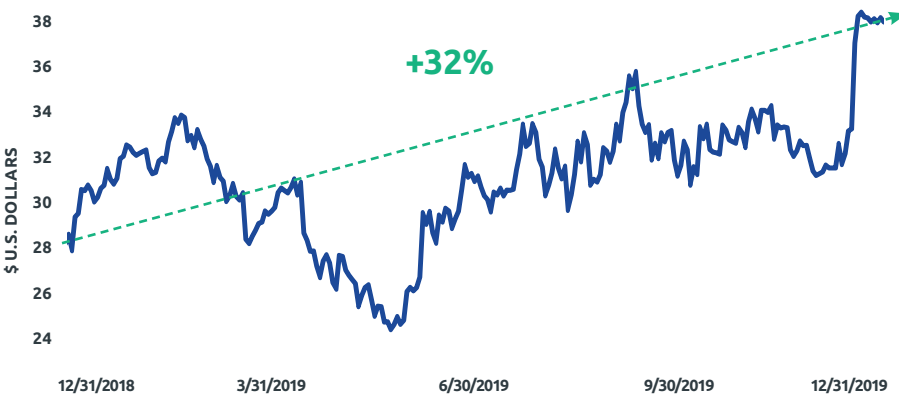
10 Years of Adjusted Earnings Per Share Growth



*Pro Forma for sale of DSS

We delivered value for our shareholders in other ways as well, such as raising our dividend for the 9th consecutive year, and repurchasing 1 million shares. For the year, our stock price increased 32%, outpacing the S&P 500 and S&P Mid Cap Index.

2019 POL Stock Price Performance



But perhaps the most important contribution we made to all of our many stakeholders this past year was through the strategic investments in our future. Our investments in our people, sustainability and our two transformative portfolio actions will drive us and define us for many years to come.

11% 
INCREASE IN DIVIDEND

1.0 Million
SHARES REPURCHASED

+32% 
STOCK PRICE INCREASE

Every year has its challenges, and 2019 was no exception. Yet we took action where we could, stuck to our proven strategy and delivered...for our customers, our shareholders, our communities and our associates.

As I said earlier, that's what great companies do. That's what world-class sustainable companies do. And that's what we do at PolyOne.

We live our brand: Challenge Accepted.

This current year marks the 20th anniversary since PolyOne was established. It's been an extraordinary journey in specialty transformation. From where we've come, to where we are, to where we're going.

Our momentum in terms of People, Products, Planet and Performance has our organization more aligned and focused than ever before. The opportunities for us to impact our world and create even more value for our stakeholders are tremendous, and we will embrace our leadership role along the journey.

In closing, I would like to thank our innovative customers for their trust in PolyOne, our Board of Directors for their ongoing guidance and insight, our management team for their leadership, and all the PolyOne associates around the world for proudly serving our customers with innovation and passion.

PolyOne's best days are ahead, and it remains an honor to serve all of our many stakeholders as Chairman, President and CEO of this great company!

Robert M. Patterson

Chairman, President and CEO



PolyOne[™]

United States Securities and Exchange Commission

Washington, DC 20549

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2019

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number 1-16091

PolyOne Corporation

(Exact name of registrant as specified in its charter)

Ohio

(State or other jurisdiction
of incorporation or organization)

33587 Walker Road,

Avon Lake, Ohio

(Address of principal executive offices)

34-1730488

(I.R.S. Employer Identification No.)

44012

(Zip Code)

Registrant's telephone number, including area code (440) 930-1000

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol</u>	<u>Name of each exchange on which registered</u>
Common Shares, par value \$.01 per share	POL	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act:

None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

The aggregate market value of the registrant's outstanding common shares held by non-affiliates on June 28, 2019, determined using a per share closing price on that date of \$31.39, as quoted on the New York Stock Exchange, was \$2.4 billion.

The number of shares of common shares outstanding as of February 7, 2020 was 92,281,940.

DOCUMENTS INCORPORATED BY REFERENCE

Part III of this Annual Report on Form 10-K incorporates by reference certain information from the registrant's definitive Proxy Statement with respect to the 2020 Annual Meeting of Shareholders.

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PART I

CAUTIONARY NOTE ON FORWARD-LOOKING STATEMENTS

In this Annual Report on Form 10-K, statements that are not reported financial results or other historical information are “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements give current expectations or forecasts of future events and are not guarantees of future performance. They are based on management’s expectations that involve a number of business risks and uncertainties, any of which could cause actual results to differ materially from those expressed in or implied by the forward-looking statements. You can identify these statements by the fact that they do not relate strictly to historic or current facts. They use words such as “will,” “anticipate,” “estimate,” “expect,” “project,” “intend,” “plan,” “believe,” and other words and terms of similar meaning in connection with any discussion of future operating or financial condition, performance and/or sales. In particular, these include statements relating to future actions; prospective changes in raw material costs, product pricing or product demand; future performance; estimated capital expenditures; results of current and anticipated market conditions and market strategies; sales efforts; expenses; the outcome of contingencies such as legal proceedings and environmental liabilities; and financial results. Factors that could cause actual results to differ materially from those implied by these forward-looking statements include, but are not limited to:

- disruptions, uncertainty or volatility in the credit markets that could adversely impact the availability of credit already arranged and the availability and cost of credit in the future;
- the effect on foreign operations of currency fluctuations, tariffs and other political, economic and regulatory risks;
- changes in polymer consumption growth rates and laws and regulations regarding plastics in jurisdictions where we conduct business;
- fluctuations in raw material prices, quality and supply, and in energy prices and supply;
- production outages or material costs associated with scheduled or unscheduled maintenance programs;
- unanticipated developments that could occur with respect to contingencies such as litigation and environmental matters;
- an inability to achieve the anticipated financial benefit from initiatives related to acquisition integration, working capital reductions, cost reductions and employee productivity goals;
- our ability to pay regular quarterly cash dividends and the amounts and timing of any future dividends;
- information systems failures and cyberattacks;
- our ability to consummate and successfully integrate acquisitions, including the acquisition of Clariant AG’s (Clariant) masterbatch business (the Clariant Masterbatch Acquisition) and Clariant Chemicals (India) Limited’s (Clariant India) masterbatch business (the businesses are collectively referred to as Clariant Masterbatch and the acquisitions are collectively referred to as the Clariant Acquisition);
- any material adverse changes in Clariant Masterbatch;
- the ability to obtain required regulatory or other third-party approvals and consents and otherwise consummate the Clariant Acquisition;
- our ability to achieve the strategic and other objectives relating to the Clariant Acquisition, including any expected synergies; and
- other factors described in this Annual Report on Form 10-K under Item 1A, “Risk Factors.”

We cannot guarantee that any forward-looking statement will be realized, although we believe we have been prudent in our plans and assumptions. Achievement of future results is subject to risks, uncertainties and assumptions. Should known or unknown risks or uncertainties materialize, or should underlying assumptions prove inaccurate, actual results could vary materially from those anticipated, estimated or projected. Investors should bear this in mind as they consider forward-looking statements. We undertake no obligation to publicly update forward-looking statements, whether as a result of new information, future events or otherwise, except as otherwise required by law. You are advised, however, to consult any further disclosures we make on related subjects in our reports on Forms 10-Q, 8-K and 10-K filed with the Securities and Exchange Commission (SEC). You should understand that it is not possible to predict or identify all risk factors. Consequently, you should not consider any such list to be a complete set of all potential risks or uncertainties.

ITEM 1. BUSINESS

Business Overview

We are a premier provider of specialized and sustainable polymer materials, and polymer services and solutions. Our products include specialty engineered materials, advanced composites, color and additive systems and polymer distribution. We are also a highly specialized developer and manufacturer of performance enhancing additives, liquid colorants and fluoropolymer and silicone colorants. Headquartered in Avon Lake, Ohio, we have employees at sales, manufacturing and distribution facilities across North America, South America, Europe and Asia. When used in this Annual Report on Form 10-K, the terms “we,” “us,” “our,” “PolyOne” and the “Company” mean PolyOne Corporation and its consolidated subsidiaries.

PolyOne was formed on August 31, 2000 from the consolidation of The Geon Company (Geon) and M.A. Hanna Company (Hanna). In 1948, B.F. Goodrich created a vinyl plastic division that was subsequently spun off through a public offering in 1993, creating The Geon Company, a separate publicly-held company. Hanna was formed in 1885 as a privately-held company and became publicly-held in 1927. In the mid-1980s, Hanna began to divest its historic mining and shipping businesses to focus on polymers. Hanna purchased its first polymer company in 1986 and completed its 26th polymer company acquisition in 2000.

PolyOne Corporation is incorporated in Ohio and headquartered in Avon Lake, Ohio. We currently employ approximately 5,600 people and have 61 manufacturing sites and eight distribution facilities in North America, South America, Europe and Asia. We offer more than 35,000 polymer solutions to over 10,000 customers across the globe. In 2019, we had sales of \$2.9 billion, approximately 45% of which were to customers outside the United States.

Using our formulation expertise and operational capabilities, we create an essential link between large chemical producers (our raw material suppliers) and designers, assemblers and processors of plastics (our customers). We believe that our role in the value chain continues to become more vital as our customers increasingly need reliable suppliers with a global reach and increasingly effective material-based solutions to improve their products' appeal, performance, differentiation, profitability and competitive advantage. Our goal is to provide customers with specialized and sustainable materials and solutions through our global footprint, broad market knowledge, technical expertise, product breadth, manufacturing operations, a fully integrated information technology network and raw material procurement leverage. Our end markets include healthcare, transportation, packaging, consumer, building and construction, industrial, wire and cable, electrical and electronics and appliance.

Polymer Industry Overview

Polymers are a class of organic materials that are generally produced by converting natural gas or crude oil derivatives into monomers, such as ethylene, propylene, and styrene. These monomers are then polymerized into chains called polymers, or plastic resin, such as polyethylene and polypropylene, in their most basic forms. Large petrochemical companies, including some in the petroleum industry, produce a majority of the monomers and base resins because they have direct access to the raw materials needed for production. Monomers make up the majority of the variable cost of manufacturing the base resin. As a result, the cost of a base resin tends to move in tandem with the industry market prices for monomers and the cost of raw materials and energy used during production. Resin selling prices can move in tandem with costs, but are largely driven by supply and demand.

Thermoplastic polymers make up a substantial majority of the resin market and are characterized by their ability to be reshaped repeatedly into new forms after heat and pressure are applied. Thermoplastics offer versatility and a wide range of applications. The major types of thermoplastics include polyethylene, polypropylene, polystyrene, polyester and a range of specialized engineering resins. Each type of thermoplastic has unique qualities and characteristics that make it appropriate for use in a particular application. Thermoplastic composites include these base resins, but are combined with a structural filler such as glass, wood, carbon or polymer fibers to enhance strength, rigidity and structure. Further performance can be delivered through an engineered thermoplastic sheet or thick film, which may incorporate more than one resin formulation or composite in multiple layers to impart additional properties such as gas barrier, structural integrity and lightweighting.

Thermoplastics and polymer composites are found in a variety of end-use products and markets, including packaging, building and construction, wire and cable, transportation, medical, furniture and furnishings, durable goods, outdoor high performance equipment, electrical and electronics, adhesives, inks and coatings. Each type of thermoplastic resin has unique characteristics (such as flexibility, strength or durability) suitable for use in a particular end-use application. The packaging industry requires plastics that help keep food fresh and free of contamination while providing a variety of options for product display, and offering advantages in terms of weight and user-friendliness. In the wire and cable industry, thermoplastics and composites serve to protect by providing

electrical insulation, flame resistance, durability, water resistance, water swelling and color coding to engineered fibers, yarn products, wire coatings and connectors. In the transportation industry, plastic has proven to be durable, lightweight and corrosion resistant while offering fuel savings, design flexibility and high performance, often replacing traditional materials such as metal and glass. In the medical industry, plastics are used for a vast array of devices and equipment, including blood and intravenous bags, medical tubing, catheters, lead replacement for radiation shielding, clamps and connectors to bed frames, curtains and sheeting, electronic enclosures and equipment housings. In the outdoor high performance industry, plastic applications are used for components and colorants for all terrain vehicles and reinforced polymers are used for various outdoor equipment and gear. In the electronics industry, plastic enclosures and connectors not only enhance safety through electrical insulation, but thermally and electrically conductive plastics provide heat transferring, cooling, anti-static, electrostatic discharge, and electromagnetic shielding performance for critical applications including integrated circuit chip packaging.

Various additives can be formulated with a base resin and further engineered into a structure to provide them with greater versatility and performance. Polymer formulations and structures have advantages over metals, wood, rubber, glass and other traditional materials, which have resulted in the replacement of these materials across a wide spectrum of applications that range from automobile parts to construction materials. These specialized polymers offer advantages compared to traditional materials that include design freedom, processability, weight reduction, chemical resistance, flame retardance and lower cost. Plastics are renowned for their durability, aesthetics, ease of handling and recyclability.

PolyOne Segments

We operate in three reportable segments: (1) Color, Additives and Inks; (2) Specialty Engineered Materials; and (3) Distribution. Previously, PolyOne had five reportable segments. However, as a result of the divestiture of the Designed Structures & Solutions segment (DSS) on July 19, 2017 and the divestiture of the Performance Products and Solutions segment (PP&S) on October 25, 2019, we have removed DSS and PP&S as separate operating segments and their results are presented as discontinued operations. Historical information has been retrospectively adjusted to reflect these changes. Please see Note 3, *Discontinued Operations*, to the accompanying consolidated financial statements for additional information.

Our segments are further detailed in Note 14, *Segment Information*, to the accompanying consolidated financial statements.

Competition

The production of plastics and the manufacturing of custom and proprietary formulated color and additives systems for the plastics industry are highly competitive. Competition is based on service, performance, product innovation, product recognition, speed, delivery, quality and price. The relative importance of these factors varies among our products and services. We believe that we are the largest independent formulator of plastic materials and producer of custom and proprietary color and additive systems in the United States and Europe, with a growing presence in Asia and South America. Our competitors range from large international companies with broad product offerings to local independent custom producers whose focus is a specific market niche or product offering.

The distribution of polymer resin is also highly competitive. Speed, service, reputation, product line, brand recognition, delivery, quality and price are the principal factors affecting competition. We compete against other national independent resin distributors in North America, along with other regional distributors. Growth in the polymer distribution market is highly correlated with growth in the base polymer resins market. We believe that the strength of our company name and reputation, the broad range of product offerings from our suppliers and our speed and responsiveness, combined with the quality of products and agility of our distribution network, allow us to compete effectively.

Raw Materials

The primary raw materials used by our manufacturing operations are polyolefin and other thermoplastic resins, TiO₂, inorganic and organic pigments, all of which we believe are in adequate supply. See the discussion of risks associated with raw material supply and costs in Item 1A, "Risk Factors".

Patents and Trademarks

We own and maintain a number of patents and trademarks in the United States and other key countries that contribute to our competitiveness in the markets we serve because they protect our inventions and product names against infringement by others. Patents exist for 20 years from filing date, and trademarks have an indefinite life based upon continued use. While we view our patents and trademarks to be valuable because of the broad scope of our products and services and brand recognition we enjoy, we do not believe that the loss or expiration of any single patent or trademark would have a material adverse effect on our results of operations, financial position or cash flows. Nevertheless, we have management processes designed to rigorously protect our inventions and trademarks.

Seasonality and Backlog

Sales of our products and services are seasonal, as demand is generally slower in the first and fourth calendar quarters of the year. Because of the nature of our business, we do not believe that our backlog is a meaningful indicator of the level of our present or future business.

Working Capital Practices

Our products are generally manufactured with a short turnaround time, and the scheduling of manufacturing activities from customer orders generally includes enough lead time to assure delivery of an adequate supply of raw materials. We offer payment terms to our customers that are competitive. We generally allow our customers to return merchandise if pre-agreed quality standards or specifications are not met; however, we employ quality assurance practices that seek to minimize customer returns. Our customer returns are immaterial.

Significant Customers

No customer accounted for more than 3% of our consolidated revenues in 2019 and we do not believe we would suffer a material adverse effect to our consolidated financial statements if we were to lose any single customer.

Research and Development

We have substantial technology and development capabilities. Our efforts are largely devoted to developing new product formulations to satisfy defined market needs, by providing quality technical services to evaluate alternative raw materials, assuring the continued success of our products for customer applications, providing technology to improve our products, processes and applications and providing support to our manufacturing plants for cost reduction, productivity and quality improvement programs. We operate research and development centers that support our commercial development activities and manufacturing operations. These facilities are equipped with state-of-the-art analytical, synthesis, polymer characterization and testing equipment, along with pilot plants and polymer manufacturing operations that simulate specific production processes that allow us to rapidly translate new technologies into new products. Our investment in product research and development was \$50.6 million in 2019, \$49.6 million in 2018 and \$45.3 million in 2017.

Methods of Distribution

We sell products primarily through direct sales personnel, distributors, including our Distribution segment, and commissioned sales agents. We primarily use truck carriers to transport our products to customers, although some customers pick up product at our manufacturing facilities or warehouses. We also ship some of our manufactured products to customers by rail.

Employees

In September 2018, the Great Place to Work Institute certified PolyOne as a Great Place to Work[®] in the U.S. based on a comparison of our employees' survey responses to those of employees at hundreds of other certified companies. We believe this reflects our commitment to better serving our associates, customers and communities, as well as further advancing our sustainability initiatives.

As of December 31, 2019, we employed approximately 5,600 people. Approximately 1% of our employees are represented by labor unions under collective bargaining agreements. We believe that relations with our employees are good, and we do not anticipate significant operating issues to occur as a result of current negotiations, or when we renegotiate collective bargaining agreements as they expire.

Environmental, Health and Safety

We are subject to various environmental laws and regulations that apply to the production, use and sale of chemicals, emissions into the air, discharges into waterways and other releases of materials into the environment, and the generation, handling, storage, transportation, treatment and disposal of waste material. We endeavor to ensure the safe and lawful operation of our facilities in the manufacture and distribution of products, and we believe we are in material compliance with all applicable laws and regulations.

We maintain a disciplined environmental and occupational safety and health compliance program and conduct periodic internal and external regulatory audits at our facilities to identify and correct potential environmental exposures, including compliance matters and operational risk reduction opportunities. This effort can result in process or operational modifications, the installation of pollution control devices or cleaning up grounds or facilities. We believe that we are in material compliance with all applicable requirements.

We are strongly committed to safety as evidenced by our record-low injury incidence rate of 0.56 per 100 full-time workers per year in 2019 and 0.51 in 2018. The 2019 average injury incidence rate for our NAICS Code (326 Plastics and Rubber Products Manufacturing) was 3.8. We hold the American Chemistry Council's certification as a Responsible Care Management System[®] (RCMS) company. Certification was granted based on PolyOne's conformance to the RCMS's comprehensive environmental health, safety and security requirements. The RCMS certification affirms the importance PolyOne places on having world-class environmental, health, safety and security performance.

In January 2019, PolyOne, along with 29 other member companies, joined together as founding members of the Alliance to End Plastic Waste (AEPW). The AEPW has thus far committed over \$1.5 billion to help end plastic waste in the environment through investment in infrastructure, innovation, education, and clean-up activities. The AEPW intends to enable and bring to scale solutions to minimize and manage plastic waste and promote solutions for used plastics that move towards a circular economy. Our commitment to AEPW confirms the importance we place on being a global leader in all aspects of how we define sustainability: people, products, planet and performance. We have invested and are making important contributions in each, which are discussed in depth in our most recent Annual Report and Sustainability Report.

In our operations, we must comply with product-related governmental law and regulations affecting the plastics industry generally and also with content-specific law, regulations and non-governmental standards. We believe that compliance with current governmental laws and regulations and with non-governmental content-specific standards will not have a material adverse effect on our financial position, results of operations or cash flows. The risk of additional costs and liabilities, however, is inherent in certain plant operations and certain products produced at these plants, as is the case with other companies in the plastics industry. Therefore, we may incur additional costs or liabilities in the future. Other developments, such as increasingly strict environmental, safety and health laws, regulations and related enforcement policies, including those under the European Union Restriction of the Use of Certain Hazardous Substances Directive (RoHS), Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), the Dodd-Frank Wall Street Reform and Consumer Protection Act (covering Conflict Minerals), and the Consumer Product Safety Improvement Act, the implementation of additional content-specific standards, discovery of unknown conditions, and claims for damages to property, persons or natural resources resulting from plant emissions or products, could also result in additional costs or liabilities.

We expect 2020 cash environmental expenditures to approximate \$11 million. Refer to Note 11, *Commitments and Contingencies*, to the accompanying consolidated financial statements for further discussion of environmental matters.

International Operations

Our international operations are subject to a variety of risks, including currency fluctuations and devaluations, exchange controls, currency restrictions and changes in local economic conditions. While the impact of these risks is difficult to predict, any one or more of them could adversely affect our future operations. For more information about the noted risks, see Item 1A. "Risk Factors". For more information about our international operations, see Note 14, *Segment Information*, to the accompanying consolidated financial statements.

Where You Can Find Additional Information

Our principal executive offices are located at 33587 Walker Road, Avon Lake, Ohio 44012, and our telephone number is (440) 930-1000. We are subject to the information reporting requirements of the Securities Exchange Act of 1934 (the Exchange Act), and, in accordance with these requirements, we file annual, quarterly and other reports, proxy statements and other information with the SEC relating to our business, financial results and other matters. The reports, proxy statements and other information we file are available to the public at the SEC's website at <http://www.sec.gov>.

Our Internet address is www.polyone.com. Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act are available, free of charge, on our website (select [Investors](#) and then [SEC Filings](#)) or upon written request, as soon as reasonably practicable after we electronically file or furnish them to the SEC. The contents of our website are not part of this Annual Report on Form 10-K, and the reference to our website does not constitute incorporation by reference into this Form 10-K of the information contained at that site.

ITEM 1A. RISK FACTORS

The following are certain risk factors that could affect our business, results of operations, financial position or cash flows. These risk factors should be considered along with the forward-looking statements contained in this Annual Report on Form 10-K because these factors could cause our actual results or financial condition to differ materially from those projected in forward-looking statements. The following discussion is not an all-inclusive listing of risks, although we believe these are the more material risks that we face. If any of the following occur, our business, results of operations, financial position or cash flows could be adversely affected.

Risks Relating to our Business

Demand for and supply of our products and services may be adversely affected by several factors, some of which we cannot predict or control.

Several factors may affect the demand for and supply of our products and services, including:

- economic downturns or other volatility in the significant end markets that we serve;
- product obsolescence or technological changes that unfavorably alter the value/cost proposition of our products and services;
- competition from existing and unforeseen polymer and non-polymer based products;
- declines in general economic conditions or reductions in industrial production growth rates, both domestically and globally, which could impact our customers' ability to pay amounts owed to us;
- changes in environmental regulations that would limit our ability to sell our products and services in specific markets;
- changes in laws and regulations regarding plastic materials; and
- inability to obtain raw materials or supply products to customers due to factors such as supplier work stoppages, supply shortages, plant outages or regulatory changes that may limit or prohibit overland transportation of certain hazardous materials and exogenous factors, like severe weather.

If any of these events occur, the demand for and supply of our products and services could suffer and potentially lead to asset impairment or otherwise adversely affect our results.

Our manufacturing operations are subject to hazards and other risks associated with polymer production and the related storage and transportation of raw materials, products and wastes.

The occurrence of an operating problem at our facilities (e.g., an explosion, a mechanical failure, a chemical spill or a discharge of toxic or hazardous substances) may have a material adverse effect on the productivity and profitability of a particular manufacturing or distribution facility or on our operations as a whole, during and after the period of these operating difficulties. Operating problems may cause personal injury and/or loss of life, customer attrition and severe damage to or destruction of property and equipment and environmental damage. We are subject to present claims and potential future claims with respect to workplace exposure, workers' compensation and other matters. Our property and casualty insurance, which we believe are of the types and in the amounts that are customary for the industry, may not fully insure us against all potential hazards that are incident to our business or otherwise could occur.

Environmental, health and safety laws and regulations impact our operations and financial statements.

Our operations on, and ownership of, real property are subject to environmental, health and safety laws and regulations at the national, state and local governmental levels (including, but not limited to, the RoHS and the Consumer Product Safety Improvement Act of 2008). The nature of our business exposes us to compliance costs and risks of liability under these laws and regulations due to the production, storage, transportation, recycling or disposal and/or sale of materials that can cause contamination and other harm to the environment or personal injury if they are improperly handled and released. Environmental compliance requirements imposed on us and our vendors may significantly increase the costs of these activities involving raw materials, energy, finished products and wastes. We may incur substantial costs, including fines, criminal or civil sanctions, damages, remediation costs or experience interruptions in our operations for violations of these laws.

Our operations could be adversely affected by various risks inherent in conducting operations worldwide.

Our operations are subject to risks; including, but not limited to, the following:

- changes in local government regulations and policies including, but not limited to duty or tariff restrictions, foreign currency exchange controls or monetary policy, repatriation of earnings, expropriation of property, investment limitations and tax policies;
- risks associated with the withdrawal of the United Kingdom (UK) from the European Union (EU), commonly known as "Brexit";
- political and economic instability and disruptions, including labor unrest, withdrawal or renegotiation of trade agreements, natural disasters, major public health issues, civil strife, acts of war, insurrection and terrorism;
- legislation that regulates the use of chemicals;
- disadvantages of competing against companies from countries that are not subject to U.S. laws and regulations, including the Foreign Corrupt Practices Act (FCPA) and the UK Bribery Act;
- compliance with international trade laws and regulations, including export control and economic sanctions;
- difficulties in staffing and managing multi-national operations;
- limitations on our ability to enforce legal rights and remedies;
- reduced protection of intellectual property rights;
- other risks arising out of foreign sovereignty over the areas where our operations are conducted; and
- increasingly complex laws and regulations concerning privacy and data security, including but not limited to the European Union's General Data Protection Regulation.

On June 23, 2016, the UK held a referendum in which UK voters approved an exit from the EU. The June 2016 referendum result, and the subsequent commencement of the official withdrawal process by the UK government in March 2017, has created uncertainties affecting business operations in the UK and the EU. The long-term nature of the UK's relationship with the EU is unclear and there is considerable uncertainty regarding when any relationship will be agreed and implemented. The long-term effects of Brexit will depend on any agreements the UK makes to retain access to EU markets, either during a transitional period or more permanently. Given the lack of comparable precedent, it is unclear what financial, trade and legal implications the withdrawal of the UK from the EU would have and how such withdrawal would affect us. It is possible that the withdrawal could, among other things, affect the legal and regulatory environments to which our businesses are subject, impact trade between the UK and the EU through potential restrictions on the free movement of goods and labor between the UK and the EU, create economic and political uncertainty in the region, and create other impediments to our ability to transact within and between the UK and EU. Less than 2% of our total consolidated sales originated in the UK and shipped to the EU for the year ended December 31, 2019.

In addition, we could be adversely affected by violations of the FCPA, UK Bribery Act and similar worldwide anti-bribery laws, as well as export controls and economic sanction laws. The FCPA, UK Bribery Act and similar anti-bribery laws in other jurisdictions generally prohibit companies and their intermediaries from making improper payments to non-U.S. officials for the purpose of obtaining or retaining business. Our policies mandate compliance with these laws. We operate in many parts of the world that have experienced governmental corruption to some degree and, in certain circumstances, strict compliance with anti-bribery laws may conflict with local customs and practices. We cannot assure you that our internal controls and procedures will always protect us from the reckless or criminal acts committed by our employees or agents. If we are found to be liable for FCPA, UK Bribery Act, export control or sanction violations, we could suffer from criminal or civil penalties or other sanctions, including loss of

export privileges or authorization needed to conduct aspects of our international business, which could have a material adverse effect on our business.

Any of these risks could have an adverse effect on our international operations by reducing demand for our products.

Natural gas, electricity, fuel, logistics and raw material costs could cause volatility in our results.

The cost of our natural gas, electricity, fuel, logistics and raw materials may not correlate with changes in the prices we receive for our products, either in the direction of the price change or in absolute magnitude. Natural gas and raw materials costs represent a substantial part of our manufacturing costs. Most of the raw materials we use are commodities and the price of each can fluctuate widely for a variety of reasons, including changes in availability because of major capacity additions or reductions or significant facility operating problems. Other external factors beyond our control can also cause fluctuations in raw materials prices, which could negatively impact demand for our products and cause volatility in our results.

We face competition from other companies.

We encounter competition in price, payment terms, delivery, service, performance, product innovation, product recognition and quality, depending on the product involved.

We expect that our competitors will continue to develop and introduce new and enhanced products, which could cause a decline in the market acceptance of our products. In addition, our competitors could cause a reduction in the selling prices of some of our products as a result of intensified price competition. Competitive pressures could also result in the loss of customers.

Cybersecurity breaches, global information systems security threats and more sophisticated and targeted computer crime could pose a risk to our systems, networks and products, which could harm our business.

We depend on integrated information systems to conduct our business, including communicating with employees and customers, ordering and managing materials from suppliers, shipping products to customers, and analyzing and reporting results of operations. In addition, we store sensitive data, including proprietary business information, intellectual property and confidential employee or other personal data, on our servers and databases. Cybersecurity breaches, global information systems security threats and more sophisticated and targeted computer crime pose a risk to the security of our systems and networks and the confidentiality, availability and integrity of our data and communications. We continue to update our infrastructure, security tools, employee training and processes to protect against security incidents, including both external and internal threats, and to prevent their recurrence; however, our systems, networks and products may nevertheless be vulnerable to advanced persistent threats or other types of system failures. Depending on their nature and scope, such threats and system failures could potentially lead to the compromising of confidential information and communications, improper use of our systems and networks, manipulation and destruction of data, defective products, production downtimes and operational disruptions, which in turn could cause customers to cancel orders or otherwise adversely affect our reputation, competitiveness and results of operations.

Disruptions in the global credit, financial and/or currency markets could limit our access to credit or otherwise harm our financial results, which could have a material adverse impact on our business.

Global credit and financial markets experience volatility, including volatility in security prices, liquidity and credit availability, declining valuations of certain investments and significant changes in the capital and organizational structures of certain financial institutions. Market conditions may limit our ability to access the capital necessary to grow and maintain our business. Accordingly, we may be forced to delay raising capital, issue shorter tenors than we prefer or pay unattractive interest rates, which could increase our interest expense, decrease our profitability and significantly reduce our financial flexibility.

We are exposed to fluctuations in foreign currency exchange rates. Any significant change in the value of the currencies of the countries in which we do business against the U.S. dollar, whether precipitated by governmental monetary policy or otherwise, could affect our ability to sell products competitively and control our cost structure, which could have a material adverse effect on our business, financial condition and results of operations. For additional detail related to this risk, see Item 7A, "Quantitative and Qualitative Disclosures About Market Risk."

The agreements governing our debt, including our revolving credit facility, term loan and other debt instruments, contain various covenants that limit our ability to take certain actions and in certain circumstances require us to meet financial maintenance tests, failure to comply with which could have a material adverse effect on us.

The agreements governing our senior secured revolving credit facility and our senior secured term loan, and the indentures and credit agreements governing our other debt, contain a number of customary restrictive covenants that, among other things, limit our ability to: sell or otherwise transfer assets, including in a spin-off, incur additional debt or liens, consolidate or merge with any entity or transfer or sell all or substantially all of our assets, pay dividends or make certain other restricted payments, make investments, enter into transactions with affiliates, create dividend or other payment restrictions with respect to subsidiaries, make capital investments and alter the business we conduct.

In addition, our revolving credit facility requires us to comply under certain circumstances with specific financial tests, under which we are required to achieve certain or specific financial and operating results. Our ability to comply with these provisions may be affected by events beyond our control. A breach of any of these covenants would result in a default under such agreements and instruments, which in certain circumstances could be a default under all of these agreements and instruments. In the event of any default, our lenders could elect to declare all amounts borrowed under the agreements, together with accrued interest thereon, to be due and payable. In such event, we cannot assure that we would have sufficient assets to pay debt then outstanding under the agreements governing our debt.

Furthermore, certain of these agreements condition our ability to obtain additional borrowing capacity, engage in certain transactions or take certain other actions, on our achievement of certain or specific financial and operating results, although our failure to achieve such results would not result in a default under such agreements. Any future refinancing of our senior secured revolving credit facility or other debt may contain similar restrictive covenants.

We have a significant amount of goodwill, and any future goodwill impairment charges could adversely impact our results of operations.

As of December 31, 2019, we had goodwill of \$685.7 million. Additionally, in connection with our planned acquisition of Clariant Masterbatch, we expect that our goodwill will significantly increase. The future occurrence of a potential indicator of impairment, such as a significant adverse change in business climate, an adverse action or assessment by a regulator, unanticipated competition, a material negative change in relationships with customers, strategic decisions made in response to economic or competitive conditions, loss of key personnel or a more-likely-than-not expectation that a reporting unit or a significant portion of a reporting unit will be sold or disposed of, could result in goodwill impairment charges, which could adversely impact our results of operations. Based on our 2019 goodwill impairment test, performed as of October 1, 2019, no reporting units were identified as being at risk of future impairment. For additional information, see Note 4, *Goodwill and Intangible Assets*, to the accompanying consolidated financial statements and “Critical Accounting Policies and Estimates” included in Item 7, “Management’s Discussion and Analysis of Financial Condition and Results of Operations.”

Risks Relating to our Planned Acquisition of Clariant Masterbatch

The Clariant Acquisition may not occur at all or may not occur in the expected time frame, which may negatively impact our share price.

On December 19, 2019, we entered into a definitive share purchase agreement (the Agreement) with Clariant and a definitive business transfer agreement (the BTA) with Clariant India, pursuant to which, among other things, and subject to the satisfaction or waiver of specified conditions, we will acquire Clariant Masterbatch.

The consummation of the Clariant Acquisition is not assured. The Clariant Acquisition is subject to risks and uncertainties, including the risks that the necessary regulatory approvals will not be obtained, the risk that PolyOne may be required to divest certain businesses or assets in connection with the Clariant Acquisition, or that other closing conditions will not be satisfied. We cannot predict whether and when such conditions will be required or satisfied.

We may not realize the growth opportunities and cost synergies that are anticipated from the Clariant Acquisition or may experience other difficulties integrating Clariant Masterbatch.

The benefits that are expected to result from the Clariant Acquisition will depend, in part, on our ability to realize the anticipated growth opportunities and cost synergies as a result of the Clariant Acquisition. Our success in realizing these growth opportunities and cost synergies, and the timing of this realization, depends on the successful integration of Clariant Masterbatch. There can be no assurance that we will successfully or cost-effectively integrate Clariant Masterbatch. The failure to do so could have an adverse effect on our business, financial condition, results of operations and cash flow.

We will incur additional debt to complete the Clariant Acquisition. Our ability to generate cash to service this debt depends on many factors beyond our control.

At December 31, 2019, we had total debt of approximately \$1,242.8 million. We expect to incur approximately \$650 million of debt to complete the Clariant Acquisition.

Our ability to make payments on our debt, fund our other liquidity needs, and make planned capital expenditures will depend on our ability to generate cash in the future. A significant portion of our operations are conducted by our subsidiaries. Our cash flows and our ability to service our indebtedness, including our ability to pay the interest on and principal of our debt when due, may be dependent upon cash dividends and other distributions or other transfers from our subsidiaries. Our ability to generate cash, to a certain extent, is subject to general economic, financial, competitive, legislative, regulatory and other factors that are beyond our control.

The degree to which we are currently leveraged and will be leveraged following the consummation of the Clariant Acquisition could have important consequences for shareholders.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Headquartered in Avon Lake, Ohio, we operate globally with principal locations consisting of 61 manufacturing sites and eight distribution facilities in North America, South America, Europe and Asia. We own the majority of our manufacturing sites and lease our distribution facilities. We believe that the quality and production capacity of our facilities is sufficient to maintain our competitive position for the foreseeable future. The following table identifies the principal facilities of our segments:

Specialty Engineered Materials	Color, Additives and Inks		Distribution
1. Birmingham, Alabama	1. Glendale, Arizona	25. Tianjin, China	1. Rancho Cucamonga, California
2. Englewood, Colorado	2. Phoenix, Arizona	26. Tabor, Czech Republic	2. Chicago, Illinois
3. Montrose, Colorado	3. Fort Smith, Arkansas	27. Odkarby, Finland	3. Eagan, Minnesota
4. North Haven, Connecticut	4. Bethel, Connecticut	28. Cergy, France	4. Edison, New Jersey
5. McHenry, Illinois	5. Kennesaw, Georgia	29. Tossiat, France	5. Statesville, North Carolina
6. Winona, Minnesota	6. Elk Grove Village, Illinois	30. Diez, Germany	6. Elyria, Ohio
7. Hickory, North Carolina	7. La Porte, Indiana	31. Gyor, Hungary	7. La Porte, Texas
8. Avon Lake, Ohio	8. St. Louis, Missouri	32. Pune, India	8. Brampton, Ontario, Canada
9. Hatfield, Pennsylvania	9. Lockport, New York	33. Milan, Italy	(8 Distribution Facilities)
10. Changzhou, China	10. Pineville, North Carolina	34. Toluca, Mexico	
11. Shenzhen, China	11. Berea, Ohio	35. Eindhoven, Netherlands	
12. Suzhou, China	12. Massillon, Ohio	36. Lima, Peru	
13. Gaggenau, Germany	13. North Baltimore, Ohio	37. Kutno, Poland	
14. Melle, Germany	14. Norwalk, Ohio	38. Jeddah, Saudi Arabia	
15. Leeuwarden, Netherlands	15. Lehigh, Pennsylvania	39. Alicante, Spain	
16. Barbastro, Spain	16. Mountain Top, Pennsylvania	40. Barcelona, Spain	
17. Istanbul, Turkey	17. Vonore, Tennessee	41. Pamplona, Spain	
18. Leek, United Kingdom	18. Assesse, Belgium	42. Bangkok, Thailand	
Shanghai, China (2)	19. Itupeva, Brazil	43. Knowsley, United Kingdom	
Pune, India (1)	20. Novo Hamburgo, Brazil	Shenzhen, China (1)	
Pamplona, Spain (1)	21. Pudong (Shanghai), China	Suwanee, Georgia (2)	
(18 Manufacturing Plants)	22. & 23. Shanghai, China (3)	Pamplona, Spain (2)	
	24. Suzhou, China	(43 Manufacturing Plants)	

- (1) Facility is not included in manufacturing plants total as it is also included as part of another segment.
(2) Facility is not included in manufacturing plants total as it is a design center/lab.
(3) There are two manufacturing plants located in Shanghai, China.

ITEM 3. LEGAL PROCEEDINGS

Information regarding certain legal proceedings can be found in Note 11, *Commitments and Contingencies*, to the accompanying consolidated financial statements and is incorporated by reference herein.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

INFORMATION ABOUT OUR EXECUTIVE OFFICERS

Executive officers are elected by our Board of Directors to serve one-year terms. The following table lists the name of each person serving as an executive officer of the Company, their age, and position with the Company as of February 7, 2020.

Name	Age	Position
Robert M. Patterson	47	Chairman, President and Chief Executive Officer
Bradley C. Richardson	61	Executive Vice President, Chief Financial Officer
Michael A. Garratt	56	Senior Vice President, Chief Commercial Officer
J. Scott Horn	64	Senior Vice President, President of Distribution
Lisa K. Kunkle	51	Senior Vice President, General Counsel and Secretary
M. John Midea, Jr.	55	Senior Vice President, Global Operations and Process Improvement
Woon Keat Moh	46	Senior Vice President, President of Color, Additives and Inks
Chris L. Pederson	53	Senior Vice President, President of Specialty Engineered Materials
Joel R. Rathbun	47	Senior Vice President, Mergers & Acquisitions
João José San Martin Neto	59	Senior Vice President, Chief Human Resources Officer

Robert M. Patterson: Chairman, President and Chief Executive Officer, May 2016 to date. President and Chief Executive Officer, May 2014 to May 2016. Executive Vice President and Chief Operating Officer, March 2012 to May 2014. Executive Vice President and Chief Financial Officer, January 2011 to March 2012. Senior Vice President and Chief Financial Officer, May 2008 to January 2011. Vice President and Treasurer of Novelis, Inc. (an aluminum rolled products manufacturer) from 2007 to May 2008. Vice President, Controller and Chief Accounting Officer of Novelis from 2006 to 2007. Mr. Patterson served as Vice President and Segment Chief Financial Officer, Thermal and Flow Technology Segments of SPX Corporation (a multi-industry manufacturer and developer) from 2005 to 2006 and as Vice President and Chief Financial Officer, Cooling Technologies and Services of SPX from 2004 to 2005.

Bradley C. Richardson: Executive Vice President, Chief Financial Officer, November 2013 to date. Executive Vice President, Chief Financial Officer of Diebold, Incorporated (an integrated self-service delivery manufacturer for the banking industry and security systems) from November 2009 through November 2013. Executive Vice President, Corporate Strategy and Chief Financial Officer at Modine Manufacturing Company (a manufacturer of thermal management systems and components) from 2003 to 2009. Vice President, Performance Management Planning and Control, Chief Financial Officer, Upstream, BP Amoco, London, (a producer of oil, natural gas, and petrochemicals) from 2000 to 2003. Mr. Richardson serves on the Board of Directors of Brady Corporation and is Chair of its Audit Committee.

Michael A. Garratt: Senior Vice President, Chief Commercial Officer, April 2016 to date. Senior Vice President, President of Performance Products and Solutions, September 2013 to April 2016. President, Marmon Utility (a manufacturer of medium-high voltage utility, subsea and down-hole power cables and molded insulator systems) from March 2011 to September 2013. Chief Operating Officer, Excel Polymers (a custom thermoset rubber formulator) from November 2009 to December 2010. Vice President and General Manager - Americas Compounding and Performance Additives, Excel Polymers from March 2009 to November 2009. Vice President and General Manager - Industrial and Consumer, Excel Polymers from December 2005 to March 2009. From April 1996 to June 2005, Mr. Garratt worked for DuPont Dow Elastomers, a joint venture of Dupont and Dow (global manufacturers of engineered thermoset rubber and thermoplastic elastomer materials) in market development and product management positions, culminating in a regional commercial leadership role for Europe, the Middle East and Africa.

J. Scott Horn: Senior Vice President, President of Distribution, July 2017 to date. General Manager, Distribution, 2000 to July 2017. Vice President of M.A. Hanna Resin Distribution from 1995 to 2000, when PolyOne was formed. President, Fiberchem, Inc. (a leading regional distributor of thermoplastic and thermoset resins) from 1991, upon acquisition of Fiberchem by PolyOne's predecessor, M.A. Hanna Company, to 1995. Mr. Horn worked in various roles of increasing responsibility at Fiberchem from 1981 to 1991.

Lisa K. Kunkle: Senior Vice President, General Counsel and Secretary, May 2015 to date. Vice President, General Counsel and Secretary, August 2007 to May 2015, Assistant General Counsel February 2007 to August 2007. Partner, Jones Day (a global law firm) from January 2006 to February 2007. Associate, Jones Day from August 1995 to January 2006.

M. John Midea, Jr.: Senior Vice President, Global Operations and Process Improvement, February 2015 to date. President and Chief Executive Officer, Resco Products (a refractory products company) from August 2012 to October 2014. President and Chief Operating Officer, Ennis Traffic Safety Solutions (a traffic safety and infrastructure company) from June 2008 to July 2012. Vice President, North American - General Industrial, Valspar Corporation (a manufacturer of paints and coatings) from June 2007 to May 2008. Vice President and General Manager, Power Coatings, Valspar Corporation from February 2002 to June 2007.

Woon Keat Moh: Senior Vice President, President of Color, Additives and Inks, January 2020 to date. Vice President of Asia, January 2019 to December 2019. General Manager of Specialty Engineered Materials Asia, December 2014 to December 2018. Sales Director of Color and Additives Asia, February 2011 to November 2014. Business Development Manager, Color and Additives Asia, February 2010 to January 2011. From October 1999 to January 2010, Mr. Moh worked for Clariant AG (a global manufacturer of color and additives masterbatch) in various roles of increasing responsibility, culminating in a commercial leadership role in Southeast Asia. He also served as a technical sales executive for Bayer AG (a manufacturer of pigments, dyestuffs, additives, chemical auxiliaries for textile, leather, paper and plastic industry) with its Specialty Products division from 1997 to 1999.

Chris L. Pederson: Senior Vice President, President of Specialty Engineered Materials, November 2018 to date. Vice President, Strategy, Hexcel Corporation (a global leader in advanced composites technology) from March 2017 to November 2018. Vice President, Aerospace of Cytec Engineered Materials (a producer of specialty bonding adhesives and composite materials) from November 2009 to February 2016. Vice President, Research and Development of Cytec from January 2004 to November 2009. Mr. Pederson served as a Senior Engineer at Boeing (a global aerospace company) from 1992 to 2001.

Joel R. Rathbun: Senior Vice President, Mergers and Acquisitions, January 2016 to date. General Manager, Specialty Engineered Materials North America, February 2013 to January 2016. Vice President, Mergers and Acquisitions, June 2011 to February 2013. Mr. Rathbun served as Senior Vice President, Mergers and Acquisitions, Moelis & Company (an American global independent investment bank) from January 2008 to June 2011. He also served as Executive Director, Mergers and Acquisitions of CIBC World Markets (an investment bank in the domestic and international equity and debt capital markets) from 2006 to 2008.

João José San Martin Neto: Senior Vice President, Chief Human Resources Officer, November 2016 to date. Senior Director, Human Resources, Color, Additives and Inks, February 2013 to November 2016. Group Global Director, Human Resources, Engineered Products and Solutions from November 2012 to February 2013. Vice President Human Resources, Alcoa Power and Propulsion (a business unit of Alcoa Inc. specializing in titanium and aluminum castings) from May 2009 to October 2012. Vice President Human Resources, Alcoa Electrical & Electronic Solutions (a business unit of Alcoa Inc. specializing in the design, development and production of electrical and electronic distribution systems) from August 2003 to April 2009.

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common shares, \$0.01 par value per share, are traded on the New York Stock Exchange under the symbol "POL."

As of February 7, 2020, there were 1,704 holders of record of our common shares.

We currently have an authorized common share repurchase program. For the full year 2019, we repurchased 1 million common shares at a weighted average share price of \$26.91. During the three months ended December 31, 2019, we repurchased zero common shares as shown in the table below.

Period	Total Number of Shares Purchased	Weighted Average Price Paid Per Share	Total Number of Shares Purchased as Part of Publicly Announced Program	Maximum Number of Shares that May Yet be Purchased Under the Program ⁽¹⁾
October 1 to October 31	—	\$ —	—	2,107,472
November 1 to November 30	—	\$ —	—	2,107,472
December 1 to December 31	—	—	—	2,107,472
Total	—	\$ —	—	

- (1) On August 18, 2008, we announced that our Board of Directors approved a common share repurchase program authorizing PolyOne to purchase up to 10.0 million of its common shares. On each of October 11, 2011 and October 23, 2012, we further announced that our Board of Directors had increased the common share repurchase authorization by an additional 5.3 million shares and 13.2 million shares, respectively. On May 16, 2016, we announced that we would increase our share buyback by 7.3 million shares to 10.0 million shares. As of December 31, 2019, approximately 2.1 million shares remained available for purchase under these authorizations, which have no expiration. Purchases of common shares may be made by open market purchases or privately negotiated transactions and may be made pursuant to Rule 10b5-1 plans and accelerated share repurchases.

ITEM 6. SELECTED FINANCIAL DATA

Refer to Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations," in Part II of this Annual Report on Form 10-K and the notes to our accompanying consolidated financial statements for additional information regarding the financial data presented below, including matters that might cause this data not to be indicative of our future financial condition, results of operations or cash flows.

(In millions, except per share data)	2019	2018	2017	2016	2015
Sales	\$ 2,862.7	\$ 2,881.0	\$ 2,590.3	\$ 2,349.4	\$ 2,313.0
Operating income	156.8	178.6	173.1	170.4	177.7
Net income from continuing operations	75.7	87.4	111.1	101.3	95.4
Net income from continuing operations attributable to PolyOne shareholders	75.5	87.7	111.0	101.5	95.3
Cash dividends declared per common share	\$ 0.788	\$ 0.720	\$ 0.580	\$ 0.495	\$ 0.420
Earnings per share from continuing operations attributable to PolyOne shareholders:					
Basic	\$ 0.98	\$ 1.10	\$ 1.36	\$ 1.21	\$ 1.09
Diluted	\$ 0.97	\$ 1.09	\$ 1.35	\$ 1.19	\$ 1.07
Total assets	\$ 3,273.3	\$ 2,723.3	\$ 2,705.3	\$ 2,735.8	\$ 2,620.3
Long-term debt	\$ 1,210.9	\$ 1,336.2	\$ 1,276.4	\$ 1,239.4	\$ 1,127.6

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Overview

Management's Discussion and Analysis of Financial Condition and Results of Operations (MD&A) is designed to provide information that is supplemental to, and should be read together with, our consolidated financial statements and the accompanying notes contained in this Annual Report on Form 10-K. Information in this Item 7 is intended to assist the reader in obtaining an understanding of our consolidated financial statements, the changes in certain key items in those financial statements from year to year, the primary factors that accounted for those changes, and any known trends or uncertainties that we are aware of that may have a material effect on our future performance, as well as how certain accounting principles affect our consolidated financial statements. Unless otherwise noted, the discussion that follows includes a comparison of our results of operations, liquidity and capital resources, and cash flows for fiscal years 2019 and 2018. For a discussion of changes from fiscal year 2017 to fiscal year 2018, refer to Management's Discussion and Analysis of Financial Condition and Results of Operations in Part II, Item 7 of our Annual Report on Form 10-K for the year ended December 31, 2018, filed as Exhibit 99.1 to our Current Report on Form 8-K, filed with the SEC on January 28, 2020.

The following discussion contains forward-looking statements that reflect our plans, estimates and beliefs. Our actual results could differ materially from those discussed in these forward-looking statements. Factors that could cause or contribute to these differences include, but are not limited to, those discussed below and elsewhere in this Annual Report on Form 10-K, particularly in "Cautionary Note on Forward-Looking Statements" and Item 1A, "Risk Factors."

Our Business

We are a premier provider of specialized and sustainable polymer materials and polymer services and solutions. Our products include specialty engineered materials, advanced composites, color and additive systems and polymer distribution. We are also a highly specialized developer and manufacturer of performance enhancing additives, liquid colorants, and fluoropolymer and silicone colorants. Headquartered in Avon Lake, Ohio, with 2019 sales of \$2.9 billion, we have manufacturing sites and distribution facilities across North America, South America, Europe and Asia. We currently employ approximately 5,600 people and offer more than 35,000 polymer solutions to over 10,000 customers across the globe. We provide value to our customers through our ability to link our knowledge of polymers and formulation technology with our manufacturing and supply chain capabilities to provide value-added solutions to designers, assemblers and processors of plastics (our customers).

Key Challenges

Our business faces macroeconomic exposures resulting from economic downturns, especially as it relates to cyclical markets such as building and construction, automotive and industrial. In addition, with 57% and 48% of our respective Color, Additives and Inks and Specialty Engineered Materials segments' sales outside the United States, we experience volatility related to foreign currency fluctuations, most significantly the Euro. Increasing profitability during periods of raw material price volatility is another challenge. Further, we strive to capitalize on the opportunity to accelerate development of products that meet a growing body of environmental laws and regulations such as lead and phthalate restrictions included in the RoHS and the Consumer Product Safety Improvement Act of 2008.

Strategy and Key Trends

To address these challenges and achieve our vision, we have implemented a strategy with four core components: specialization, globalization, operational excellence and commercial excellence. Specialization differentiates us through products, services, technology and solutions that add value. Globalization allows us to service our customers with consistency wherever their operations might be around the world. Operational excellence empowers us to respond to the voice of the customer while focusing on continuous improvement. Commercial excellence enables us to deliver value to customers by supporting their growth and profitability with superior customer service.

We are also committed to sustainability through our four cornerstones of people, products, planet, and performance. We have invested in and are making important contributions to each, which are discussed in depth in our most recent Annual Report and Sustainability Report.

In the short term, we will maintain our focus on sales growth with expanding margins, with a goal of offsetting economic headwinds in certain end markets and geographies, raw material volatility and logistics cost inflation. Longer term, we will continue to focus on accelerating the launch of new products and collaborating with our customers to develop new and unique solutions for their benefit while focusing on our four cornerstones of sustainability - people, products, planet and performance - to ensure the growth we achieve is sustainable for us

and our customers. Capital expenditures will be focused primarily to support sales growth, investment in recent acquisitions, and other strategic investments. We also continue to consider acquisitions and other synergy opportunities that complement our core platforms. These actions will ensure that we continue to invest in our core capabilities and continue to support growth in key markets and product offerings.

We will continue our enterprise-wide Lean Six Sigma program directed at improving margin, profitability and cash flow by applying proven management techniques and strategies to key areas of the business, such as pricing, supply chain and operations management, productivity and quality. Long-term trends that currently provide opportunities to leverage our strategy and commitment to sustainability include improving health and wellness, protecting the environment, globalizing and localizing and increasing energy efficiency. Examples of how our strategy supports these trends can be found in numerous initiatives: active participation in the medical device market, leveraging our global footprint to deliver consistent solutions globally, light weighting and metal replacement and development of solutions that respond to ever-changing market needs by offering alternatives to traditional materials.

Recent Developments

On January 2, 2019, the Company acquired Fiber-Line, LLC (Fiber-Line), a global leader in polymer coated engineered fibers and composite materials, for total consideration of \$152.7 million, net of cash acquired and inclusive of contingent consideration. Fiber-Line's results are reported in the Specialty Engineered Materials segment. The preliminary purchase price allocation resulted in intangible assets of \$77.1 million, goodwill of \$47.0 million, and net working capital of \$24.9 million.

On October 25, 2019, PolyOne completed the divestiture of its Performance Products and Solutions business segment (PP&S) for \$775 million in cash, subject to a working capital adjustment. Previously, PP&S was included as a separate operating segment. As a result of the sale, the PP&S operating segment results are now reported as discontinued operations. Historical information has been retrospectively adjusted to reflect these changes.

On December 19, 2019, the Company entered into the Agreement with Clariant, and separately entered into the BTA with Clariant India. Pursuant to the Agreement and the BTA, PolyOne has agreed to acquire the masterbatch businesses of Clariant and Clariant India for a net purchase price of \$1.45 billion in cash, subject to customary working capital and net debt adjustments. Each of the Agreement and the BTA contain certain customary termination rights, and, with respect to the Agreement only, the requirement that PolyOne pay a termination fee in the event the Agreement is terminated under certain conditions.

The closing of each acquisition is expected to occur in mid-2020, subject to the receipt of regulatory approvals, the satisfaction or waiver of customary closing conditions and, in the case of the Clariant India masterbatch acquisition, shareholder approval of Clariant India.

We intend to use (i) a portion of the net proceeds from the sale of PP&S, (ii) the net proceeds, after deducting the underwriters' discount but before deducting offering expenses, of approximately \$496.8 million from the issuance of common shares in an underwritten public offering that we completed in February 2020 and (iii) the net proceeds of an anticipated senior unsecured notes offering to finance the Clariant Acquisition, including the payment of related fees and expenses. Refer to "Liquidity" for more information regarding the financing for the Clariant Acquisition.

Highlights and Executive Summary

A summary of PolyOne's sales, operating income, income from continuing operations, net of income taxes and net income from continuing operations attributable to PolyOne common shareholders is included in the following table:

(In millions)	2019	2018	2017
Sales	\$ 2,862.7	\$ 2,881.0	\$ 2,590.3
Operating income	156.8	178.6	173.1
Net income from continuing operations, net of income taxes	75.7	87.4	111.1
Net income from continuing operations attributable to PolyOne common shareholders	75.5	87.7	111.0

Results of Operations

Variations — Favorable (Unfavorable)

2019 versus 2018 2018 versus 2017

(Dollars in millions, except per share data)	2019	2018	2017	Variations — Favorable (Unfavorable)			
				2019 versus 2018		2018 versus 2017	
				Change	% Change	Change	% Change
Sales	\$ 2,862.7	\$ 2,881.0	\$ 2,590.3	\$ (18.3)	(0.6)%	\$ 290.7	11.2 %
Cost of sales	2,205.5	2,256.2	1,993.9	50.7	2.2 %	(262.3)	(13.2)%
Gross margin	657.2	624.8	596.4	32.4	5.2 %	28.4	4.8 %
Selling and administrative expense	500.4	446.2	423.3	(54.2)	(12.1)%	(22.9)	(5.4)%
Operating income	156.8	178.6	173.1	(21.8)	(12.2)%	5.5	3.2 %
Interest expense, net	(59.5)	(62.8)	(60.8)	3.3	5.3 %	(2.0)	(3.3)%
Debt extinguishment costs	—	(1.1)	(0.3)	1.1	nm	(0.8)	nm
Other income (expense), net	12.1	(12.9)	(0.1)	25.0	nm	(12.8)	nm
Income from continuing operations before income taxes	109.4	101.8	111.9	7.6	7.5 %	(10.1)	(9.0)%
Income tax expense	(33.7)	(14.4)	(0.8)	(19.3)	nm	(13.6)	nm
Net income from continuing operations	\$ 75.7	\$ 87.4	\$ 111.1	\$ (11.7)	(13.4)%	\$ (23.7)	(21.3)%
Income (loss) from discontinued operations, net of income taxes	513.1	72.1	(168.7)	441.0	nm	240.8	nm
Net income (loss)	588.8	159.5	(57.6)	429.3	nm	217.1	nm
Net loss (income) attributable to noncontrolling interests	(0.2)	0.3	(0.1)	(0.5)	nm	(0.4)	nm
Net income (loss) attributable to PolyOne common shareholders	\$ 588.6	\$ 159.8	\$ (57.7)	\$ 428.8	nm	\$ 217.5	nm

Earnings (loss) per share attributable to PolyOne common shareholders - basic:

Continuing operations	\$ 0.98	\$ 1.10	\$ 1.36
Discontinued operations	6.64	0.91	(2.07)
Total	\$ 7.62	\$ 2.01	\$ (0.71)

Earnings (loss) per share attributable to PolyOne common shareholders - diluted:

Continuing operations	\$ 0.97	\$ 1.09	\$ 1.35
Discontinued operations	6.61	0.90	(2.05)
Total	\$ 7.58	\$ 1.99	\$ (0.70)

nm - not meaningful

Sales

Sales decreased \$18.3 million, or 0.6%, in 2019 compared to 2018, as growth provided by acquisitions of 4.3% was offset by organic sales decline of 3.4% and unfavorable foreign exchange of 1.5%.

Cost of sales

As a percent of sales, cost of sales decreased from 78.3% in 2018 to 77.0% in 2019, primarily as a result of improved mix and lower environmental remediation costs.

Selling and administrative expense

These costs include selling, technology, administrative functions, corporate and general expenses. Selling and administrative expense in 2019 increased \$54.2 million compared to 2018, primarily driven by costs associated with earnout adjustments and acquisitions.

Interest expense, net

Interest expense, net decreased \$3.3 million in 2019 compared to 2018 due to favorable impact from net investment hedges, partially offset by the impact of increased interest rates associated with our variable rate debt and higher average outstanding balances. See Note 15, *Derivatives and Hedging*, to the accompanying consolidated financial statements for detail on hedging instruments.

Other income (expense), net

The Company adopted Accounting Standards Update (ASU) 2017-07, *Compensation - Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost*, on January 1, 2018. As a result, all components of net periodic benefit cost, except for service costs, are presented here. For further detail, see Note 10, *Employee Benefit Plans*, to the accompanying consolidated financial statements.

Debt extinguishment costs

Debt extinguishment costs of \$1.1 million for 2018 include the write-off of unamortized deferred financing costs and premium and consent payments in connection with the amendments of our senior secured term loan due 2026 and our senior secured revolving credit facility. There were no debt extinguishment costs incurred in 2019. See Note 5, *Financing Arrangements*, to the accompanying consolidated financial statements for additional information.

Income taxes

The Company is subject to taxation in the U.S. and numerous foreign jurisdictions. In determining the effective income tax rate, the Company analyzes various factors, including annual earnings, the laws of taxing jurisdictions in which the earnings were generated, the impact of state and local income taxes, the ability to use tax credits, net operating loss carryforwards, and available tax planning alternatives. Discrete items, including the effect of changes in tax laws, statutory tax rates, and valuation allowances or other non-recurring tax adjustments are reflected in the period in which they occur as an addition to, or reduction from, the income tax provision.

The Tax Cuts and Jobs Act (TCJA) was enacted on December 22, 2017. Among other things, effective in 2018, the TCJA reduced the U.S. federal corporate tax rate from 35% to 21%, exempts from U.S. federal income taxation dividends from certain foreign corporations to their U.S. shareholders, eliminates or reduces the effect of various federal tax deductions and creates new taxes on certain outbound payments and future foreign earnings generated after 2017. The TCJA required U.S. companies to pay a one-time transition tax on earnings of foreign corporate subsidiaries that were at least ten-percent owned by such U.S. companies and that were previously deferred from U.S. taxation.

As of December 31, 2018, we completed our accounting for the tax effects of the enactment of the TCJA. In compliance with the one-year measurement period of the SEC's Staff Accounting Bulletin 118 (SAB 118) (issued December 22, 2017), we have finalized the effects of the TCJA on our existing deferred income tax balances, the one-time transition tax and, as discussed below, the impact the TCJA had on our indefinite reinvestment assertion pursuant to Accounting Principles Board 23 (APB 23). These finalized effects are included as components of income tax expense from continuing operations and are noted in the following tabular reconciliation.

As of December 31, 2018, we completed our analysis with respect to the impact of the TCJA on our continuing assertion that our foreign earnings are indefinitely reinvested pursuant to APB 23 of Accounting Standards Codification 740-30 (ASC 740-30). APB 23 provides guidance that US companies do not need to recognize tax effects on foreign earnings that are indefinitely reinvested. Our assertion has changed with respect to certain earnings of foreign affiliates in certain countries, which resulted in a recognition of tax liabilities. As of December 31, 2018, and as noted in the following tabular reconciliation, the Repatriation of certain foreign earnings from prior and current periods totaled 9.4%. This consisted of an impact of 7.5% to our provision from a decision to repatriate prior year earnings after completing our analysis with respect to the TCJA and 1.9% pertaining to our decision to repatriate certain current year earnings. For the year ended December 31, 2019, the rate impact was 1.6% pertaining to our decision to repatriate certain current year earnings. The rest of our foreign earnings are indefinitely reinvested pursuant to APB 23 and our policy. No deferred income taxes were recorded on outside basis differences as it was not practicable to determine the provision impact, if any, due to the complexities associated with this calculation.

We elected to recognize the resulting tax on global intangible low-taxed income (GILTI) and the deduction of foreign-derived intangible income (FDII) as a period expense in the period the tax is incurred.

A reconciliation of the applicable U.S. federal statutory tax rate to the consolidated effective income tax rate from continuing operations along with a description of significant or unusual reconciling items is included below.

(In millions)	Twelve Months Ended December 31,		
	2019	2018	2017
Federal statutory income tax rate	21.0 %	21.0 %	35.0 %
Tax on GILTI	1.9	3.3	—
Repatriation on certain foreign earnings from prior and current periods	1.6	9.4	0.8
Net impact of non-deductible acquisition earnouts	2.8	0.2	—
Tax on one-time gain from sale of other assets	6.0	—	—
U.S. tax reform, transition tax	0.2	2.1	17.8
U.S. tax reform, tax effect on net deferred tax liabilities	—	(5.4)	(18.0)
Tax impact of FDII deduction	(2.0)	(0.4)	—
Research and development credit	(2.8)	(0.8)	(1.4)
Domestic production activities deduction	—	(1.1)	(2.4)
Amended prior period tax returns and corresponding favorable audit adjustments	(0.7)	—	(6.8)
Tax benefits on certain foreign investments	—	—	(12.8)
State and local tax, net	4.2	2.3	0.2
Foreign tax rate differential	(8.9)	(12.1)	(20.0)
Foreign permanent items	7.5	(1.6)	2.4
Net impact of uncertain tax positions	(2.4)	(0.6)	4.8
Changes in valuation allowances	1.7	(3.4)	1.4
Other	0.7	1.2	(0.3)
Effective income tax rate	<u>30.8 %</u>	<u>14.1 %</u>	<u>0.7 %</u>

2019 compared to 2018

For 2019, the Company decided to repatriate certain current year foreign earnings that will be remitted in the future which had an unfavorable tax impact of \$1.8 million (1.6%). This was lower than 2018, as the decision was to repatriate certain foreign earnings from both current and prior periods having an unfavorable tax impact of \$9.6 million (9.4%).

The increase in the State and local tax, net line resulted from an unfavorable state tax audit decision combined with higher domestic earnings in 2019.

The increase in the Foreign permanent items line primarily related to the non-deductibility of interest expense relating to the receipt of tax-exempt dividends which caused an unfavorable tax effect of \$10.3 million (9.4%).

The increase in the benefit in the Net impact of uncertain tax positions line resulted from the expiration of statute of limitations and favorable tax settlements.

The unfavorable change reflected in the Changes in valuation allowances line from 2018 to 2019 resulted from operational losses and the absence of the realizability of deferred tax assets that occurred in 2018.

2018 compared to 2017

The increase in the Repatriation on certain foreign earnings from 2017 to 2018 line items resulted from a decision to repatriate certain foreign earnings from 2018 and 2017.

The increase in the State and local tax, net line resulted from an unfavorable state tax audit decision.

In 2018, Foreign permanent items line included a favorable tax treatment of a foreign intellectual property transaction.

The benefit reflected in the Changes in valuation allowances line resulted from the realizability of a deferred tax asset for one of our foreign entities.

Segment Information

Operating income is the primary measure that is reported to our chief operating decision maker for purposes of making decisions about allocating resources to the segments and assessing their performance. Operating income at the segment level does not include: corporate general and administrative costs that are not allocated to segments; intersegment sales and profit eliminations; charges related to specific strategic initiatives, such as the consolidation of operations; restructuring activities, including employee separation costs resulting from personnel reduction programs, plant closure and phase-in costs; costs incurred directly in relation to acquisitions or divestitures; integration costs; executive separation agreements; share-based compensation costs; environmental remediation costs and other liabilities for facilities no longer owned or closed in prior years; actuarial gains and losses associated with our pension and post-retirement benefit plans; and certain other items that are not included in the measure of segment profit or loss that is reported to and reviewed by our chief operating decision maker. These costs are included in *Corporate and eliminations*.

PolyOne has three reportable segments: (1) Color, Additives and Inks; (2) Specialty Engineered Materials; and (3) Distribution.

Our segments are further discussed in Note 14, *Segment Information*, to the accompanying consolidated financial statements.

Sales and Operating Income — 2019 compared with 2018 and 2018 compared with 2017

(Dollars in millions)	2019	2018	2017	2019 versus 2018		2018 versus 2017	
				Change	% Change	Change	% Change
Sales:							
Color, Additives and Inks	\$ 1,003.8	\$ 1,046.5	\$ 893.2	\$ (42.7)	(4.1)%	\$ 153.3	17.2 %
Specialty Engineered Materials	745.7	645.8	624.3	99.9	15.5 %	21.5	3.4 %
Distribution	1,192.2	1,265.4	1,154.6	(73.2)	(5.8)%	110.8	9.6 %
Corporate and eliminations	(79.0)	(76.7)	(81.8)	(2.3)	(3.0)%	5.1	6.2 %
Sales	<u>\$ 2,862.7</u>	<u>\$ 2,881.0</u>	<u>\$ 2,590.3</u>	<u>\$ (18.3)</u>	<u>(0.6)%</u>	<u>\$ 290.7</u>	<u>11.2 %</u>
Operating income:							
Color, Additives and Inks	\$ 147.4	\$ 158.5	\$ 138.6	\$ (11.1)	(7.0)%	\$ 19.9	14.4 %
Specialty Engineered Materials	86.8	72.3	75.5	14.5	20.1 %	(3.2)	(4.2)%
Distribution	75.4	71.5	72.6	3.9	5.5 %	(1.1)	(1.5)%
Corporate and eliminations	(152.8)	(123.7)	(113.6)	(29.1)	(23.5)%	(10.1)	(8.9)%
Operating income	<u>\$ 156.8</u>	<u>\$ 178.6</u>	<u>\$ 173.1</u>	<u>\$ (21.8)</u>	<u>(12.2)%</u>	<u>\$ 5.5</u>	<u>3.2 %</u>
Operating income as a percentage of sales:							
Color, Additives and Inks	14.7 %	15.1 %	15.5 %	(0.4)%	points	(0.4)%	points
Specialty Engineered Materials	11.6 %	11.2 %	12.1 %	0.4 %	points	(0.9)%	points
Distribution	6.3 %	5.7 %	6.3 %	0.6 %	points	(0.6)%	points
Total	5.5 %	6.2 %	6.7 %	(0.7)%	points	(0.5)%	points

Color, Additives and Inks

Sales decreased \$42.7 million, or 4.1%, in 2019 compared to 2018. Growth in sustainable solutions and the packaging and healthcare end markets, as well as continued gains in pricing and mix, were more than offset by continued weakness in the Chinese automotive end market as well as the North American consumer and industrial markets. Unfavorable foreign exchange reduced sales by 2.5%.

Operating income decreased \$11.1 million in 2019 compared to 2018. Unfavorable foreign exchange and the continued softness in the automotive and consumer end markets drove the decline.

Specialty Engineered Materials

Sales increased \$99.9 million, or 15.5%, in 2019 compared to 2018. Acquisitions contributed 19.0% growth while North America composites, healthcare, and the wire and cable end markets contributed as well. These gains were partially offset by unfavorable foreign exchange of 2.4% and weakness in the transportation and electronic end markets.

Operating income increased by \$14.5 million in 2019 compared to 2018 as a result of acquisitions and margin expansion from improved mix, which were partially offset by unfavorable foreign exchange.

Distribution

Sales decreased \$73.2 million, or 5.8%, in 2019 compared to 2018 due to lower volume and average selling prices, reflecting raw material deflation.

Operating income increased \$3.9 million in 2019 compared to 2018 as a result of improved mix and pricing.

Corporate and Eliminations

Corporate and eliminations increased \$29.1 million in 2019 compared to 2018. This increase was primarily as a result of adjustments to estimated earnout liabilities due to better than expected results from recent acquisitions. See Note 2, *Business Combinations* to the accompanying condensed consolidated financial statements for further details.

Liquidity and Capital Resources

Our objective is to finance our business through operating cash flow and an appropriate mix of debt and equity. By laddering the maturity structure, we avoid concentrations of debt maturities, reducing liquidity risk. We may from time to time seek to retire or purchase our outstanding debt with cash and/or exchanges for equity securities, in open market purchases, privately negotiated transactions or otherwise. We may also seek to repurchase our outstanding common shares. Such repurchases, if any, will depend on prevailing market conditions, our liquidity requirements, contractual restrictions and other factors. The amounts involved have been and may continue to be material.

The following table summarizes our liquidity as of December 31, 2019:

(In millions)

Cash and cash equivalents	\$	864.7
Revolving credit availability		281.1
Liquidity	\$	<u>1,145.8</u>

As of December 31, 2019, approximately 29% of the Company's cash and cash equivalents resided outside the United States.

Based on current projections, we believe that we will be able to continue to manage and control working capital, discretionary spending and capital expenditures and that cash provided by operating activities, along with available borrowing capacity under our revolving credit facilities, will allow us to maintain adequate levels of available capital to fund our operations, meet debt service obligations, continue paying dividends, and opportunistically repurchase outstanding common shares.

In connection with the Clariant Acquisition, on December 19, 2019, we entered into a Commitment Letter with a number of banks (the Commitment Parties), pursuant to which the Commitment Parties have provided a 12-month commitment for a \$1.15 billion senior unsecured bridge loan facility (the Bridge Facility) for purposes of funding the Clariant Acquisition. The Commitment Parties' commitments under the Bridge Facility were subsequently reduced on a dollar-for-dollar basis by the net proceeds from the issuance of common shares in an underwritten public offering that we completed in February 2020. The Company currently intends to issue new senior unsecured notes in lieu of borrowing under the Bridge Facility.

Expected sources of cash in 2020 outside of the Clariant Acquisition include cash from operations and available liquidity under our revolving credit facility, if needed. Outside of the Clariant Acquisition, expected uses of cash in 2020 include select specialty acquisitions, interest payments, cash taxes, dividend payments, share repurchases, environmental remediation costs and capital expenditures. Capital expenditures are currently estimated to be approximately \$65.0 million in 2020, primarily to support sales growth, our continued investment in recent acquisitions and other strategic investments.

Additionally, as further described in Note 11, *Commitments and Contingencies*, to the accompanying consolidated financial statements, we may incur additional uses of cash for environmental remediation at the former Goodrich Corporation Calvert City site.

Cash Flows

The following summarizes our cash flows from operating, investing and financing activities.

(In millions)	2019	2018	2017
Cash provided by (used by):			
Operating Activities	\$ 300.8	\$ 253.7	\$ 202.4
Investing Activities	611.9	(170.3)	(119.4)
Financing Activities	(218.3)	(148.1)	(72.7)
Effect of exchange rate on cash	(0.6)	(8.0)	6.6
Net increase (decrease) in cash and cash equivalents	<u>\$ 693.8</u>	<u>\$ (72.7)</u>	<u>\$ 16.9</u>

Operating activities

In 2019, net cash provided by operating activities was \$300.8 million as compared to \$253.7 million in 2018. This increase was primarily as a result of working capital improvements.

In 2018, net cash provided by operating activities was \$253.7 million as compared to \$202.4 million in 2017. The increase in net cash provided by operating activities of \$51.3 million primarily reflects improved working capital as well as a receipt of \$27.9 million of U.S. federal income tax refunds.

Investing Activities

Net cash provided by investing activities during 2019 of \$611.9 primarily reflects \$119.6 million for the acquisition of Fiber-Line, and \$81.7 million of capital expenditures, \$761.8 proceeds from the divestiture of PP&S, and \$51.4 million cash proceeds from the sale of other assets.

Net cash used by investing activities during 2018 of \$170.3 million reflects acquisitions of \$98.6 million and capital expenditures of \$76.0 million.

Financing Activities

Net cash used by financing activities in 2019 primarily reflects \$60.3 million of dividends paid, repurchases of our outstanding common shares of \$26.9 million, net repayments of \$120.5 million under our senior secured revolving credit facility, and from proceeds received from the sale of PP&S.

Net cash used by financing activities in 2018 primarily reflects repurchases of \$123.0 million of our outstanding common shares, cash dividends paid of \$56.1 million, and repayment of debt of \$22.9 million. Net borrowings of \$62.6 million under our revolving credit facilities partially offset these uses.

Total Debt

The following table summarizes debt as presented at December 31, 2019 and 2018.

(In millions)	December 31, 2019	December 31, 2018
Senior secured revolving credit facility due 2022	\$ —	\$ 120.1
Senior secured term loan due 2026	614.7	619.8
5.25% senior notes due 2023	596.3	595.0
Other Debt	18.3	20.7
Total Debt	\$ 1,229.3	\$ 1,355.6
Less short-term and current portion of long-term debt	18.4	19.4
Total long-term debt, net of current portion	\$ 1,210.9	\$ 1,336.2

On April 11, 2018, the Company entered into a fifth amendment to its senior secured term loan. Under the terms of the amended senior secured term loan, the margin was reduced by 25 basis points to 175 basis points. At the Company's discretion, interest is based upon (i) a margin rate of 175 basis points plus the 1-, 2-, 3-, or 6-month LIBOR, subject to a floor of 75 basis points, or (ii) a margin rate of 75 basis points plus a Prime Rate, subject to a floor of 175 basis points. On November 9, 2018, the Company entered into a sixth amendment to its senior secured term loan, which extended the maturity to 2026. Repayments in the amount of one percent of the aggregate principal amount as of August 3, 2016 are payable annually, while the remaining balance matures on January 30, 2026. The weighted average annual interest rate under the senior secured term loan for the year ended December 31, 2019 and 2018 was 4.01% and 3.80%, respectively. The total principal repayments for the year ended December 31, 2019 were \$6.5 million.

The Company maintains a senior secured revolving credit facility, which matures on February 24, 2022 and provides a maximum borrowing facility size of \$450.0 million, subject to a borrowing base with advances against certain U.S. and Canadian accounts receivable, inventory and other assets as specified in the agreement. On June 28, 2019, the Company amended and restated its senior secured revolving credit facility to, among other things, add a European line of credit, up to the euro equivalent of \$50.0 million, subject to a borrowing base with advances against certain European accounts receivable. Advances under the U.S. portion of our revolving credit facility bear interest, at the Company's option, at a Base Rate or a LIBOR Rate plus an applicable margin. The Base Rate is a fluctuating rate equal to the greater of (i) the Federal Funds Rate plus one-half percent, (ii) the prevailing LIBOR Rate plus one percent, and (iii) the prevailing Prime Rate. The applicable margins vary based on the Company's daily average excess availability during the previous quarter. The weighted average annual interest rate under this facility for the year ended December 31, 2019 and 2018 was 3.90% and 3.35%, respectively. As of December 31, 2019, we had no borrowings under our revolving credit facility, which had remaining availability of \$279.4 million. As of December 31, 2018, we had borrowings of \$120.1 million under our revolving credit facility, which had remaining availability of \$279.4 million.

The agreements governing our revolving credit facility and our senior secured term loan, and the indentures and credit agreements governing other debt, contain a number of customary financial and restrictive covenants that, among other things, limit our ability to: sell or otherwise transfer assets, including in a spin-off, incur additional debt or liens, consolidate or merge with any entity or transfer or sell all or substantially all of our assets, pay dividends or make certain other restricted payments, make investments, enter into transactions with affiliates, create dividend or other payment restrictions with respect to subsidiaries, make capital investments and alter the business we conduct. As of December 31, 2019, we were in compliance with all covenants.

As of both December 31, 2019 and 2018, the Company maintained a credit line of \$12.0 million with Saudi Hollandi Bank. The credit line has an interest rate equal to the Saudi Arabia Interbank Offered Rate plus a fixed rate of 0.85% and is subject to annual renewal. Borrowings under the credit line were primarily used to fund capital expenditures related to the manufacturing facility in Jeddah, Saudi Arabia. As of December 31, 2019, letters of credit under the credit line were immaterial and borrowings were \$10.3 million with a weighted average annual interest rate of 3.14%. As of December 31, 2018, letters of credit under the credit line were immaterial and borrowings were \$10.7 million with a weighted average annual interest rate of 3.35%. As of December 31, 2019 and 2018, there was remaining availability on the credit line of \$1.7 million and \$1.3 million, respectively.

For additional information about our debt obligations, see Note 5, *Financing Arrangements*, to the accompanying consolidated financial statements.

Letters of Credit

Our revolving credit facility provides up to \$50.0 million for the issuance of letters of credit, \$10.3 million of which was used at December 31, 2019. These letters of credit are issued by the bank in favor of third parties and are mainly related to insurance claims.

Contractual Cash Obligations

The following table summarizes our obligations under debt agreements, operating leases, interest obligations, pension and other post-retirement plan obligations and purchase obligations as of December 31, 2019:

(In millions)	Payment Due by Period				
	Total	2020	2021 & 2022	2023 & 2024	Thereafter
Total debt (1)	\$ 1,242.8	\$ 18.4	\$ 14.7	\$ 614.0	\$ 595.7
Operating leases	71.7	24.0	27.3	12.6	7.8
Interest on long-term debt obligations (2)	355.0	70.6	126.4	101.6	56.4
Pension and post-retirement obligations (3)	44.3	5.0	9.9	9.1	20.3
Purchase obligations (4)	35.8	21.5	13.7	0.6	—
Total	<u>\$ 1,749.6</u>	<u>\$ 139.5</u>	<u>\$ 192.0</u>	<u>\$ 737.9</u>	<u>\$ 680.2</u>

(1) Total debt includes both the current and long-term portions of debt and capital lease obligations.

(2) Represents estimated contractual interest payments for all outstanding debt.

(3) Pension and post-retirement obligations relate to our U.S. and international pension and other post-retirement plans. The expected payments associated with these plans represent an actuarial estimate of future assumed payments based upon retirement and payment patterns for a 10 year period. Due to uncertainties regarding the assumptions involved in estimating future required contributions to our pension and non-pension postretirement benefit plans, including: (i) interest rate levels, (ii) the amount and timing of asset returns and (iii) what, if any, changes may occur in pension funding legislation, the estimates in the table may differ materially from actual future payments.

(4) Purchase obligations are primarily comprised of service agreements related to telecommunication, information technology, utilities and other manufacturing plant services and certain capital commitments.

The table excludes the liability for unrecognized income tax benefits, because we cannot predict with reasonable certainty the timing of cash settlements, if any, with the applicable taxing authorities. At December 31, 2019, the gross liability for unrecognized income tax benefits, including interest and penalties, totaled \$12.6 million.

Off-Balance Sheet Arrangements

We have no off-balance sheet arrangements that we are aware of as defined in Item 303(a)(4)(ii) of Regulation S-K.

Critical Accounting Policies and Estimates

Significant accounting policies are described more fully in Note 1, *Description of Business and Summary of Significant Accounting Policies*, to the accompanying consolidated financial statements. The preparation of financial statements in conformity with U.S. generally accepted accounting principles (U.S. GAAP) requires us to make estimates and assumptions about future events that affect the amounts reported in our consolidated financial statements and accompanying notes. We base our estimates on historical experience and assumptions that we believe are reasonable considering the related facts and circumstances. The application of these critical accounting policies involves the exercise of judgment and use of assumptions for future uncertainties. Accordingly, actual results could differ significantly from these estimates. We believe that the following discussion addresses our most critical accounting policies, which are those that are the most important to the portrayal of our financial condition and results of operations and require our most difficult, subjective and complex judgments.

Description	Judgments and Uncertainties	Effect if Actual Results Differ from Assumptions
<p>Environmental Liabilities</p> <ul style="list-style-type: none"> Based upon our estimates, we had an undiscounted accrual of \$112.0 million at December 31, 2019 for probable future environmental expenditures. Any such provision is recognized using the Company's best estimate of the amount of loss incurred, or at the lower end of an estimated range, when a single best estimate is not determinable. With respect to the former Goodrich Corporation Calvert City site, the United States Environmental Protection Agency (USEPA) issued its Record of Decision (ROD) in September 2018, selecting a remedy consistent with our accrual assumptions. In April 2019, the respondents signed an Administrative Settlement Agreement and Order on Consent with the USEPA to conduct the remedial design. In October 2019, the USEPA sent a Special Notice Letter to PolyOne, Westlake Vinyls, and Goodrich Corporation, inviting negotiation of a Consent Decree to perform the remedial actions at the site. On December 23, 2019, the three companies submitted to the USEPA a Good Faith Offer letter agreeing to negotiate a Consent Decree, along with a draft proposed Consent Decree and draft remedial action Work Plan. Franklin-Burlington, a subsidiary of PolyOne's former DSS business, is listed as a cooperating party along with approximately 70 other companies. The cooperating parties are working with the EPA on the lower Passaic River Study Area. Based on currently available information as of December 31, 2019, we have not identified evidence that Franklin-Burlington contributed any of the primary contaminants of concern to the lower Passaic River and therefore have not accrued for costs of remediation to the lower Passaic River. In some cases, the Company recovers a portion of the costs relating to these obligations from insurers or other third parties; however, the Company records such amounts only when they are collected. 	<ul style="list-style-type: none"> This accrual represents our best estimate of the remaining probable costs based upon information and technology currently available. Depending upon the results of future testing, the ultimate remediation alternatives undertaken, changes in regulations, new information, newly discovered conditions and other factors, it is reasonably possible that we could incur additional costs in excess of the amount accrued. However, such additional costs, if any, cannot currently be estimated. Our estimate of this liability may be revised as new regulations or technologies are developed or additional information is obtained. 	<ul style="list-style-type: none"> If further developments or resolution of these matters are not consistent with our assumptions and judgments, we may need to recognize a significant adjustment in a future period. As we progress through certain benchmarks such as completion of the remedial investigation and feasibility study, issuance of a record of decision and remedial design, additional information will become available that may require an adjustment to our existing reserves.

Description

Judgments and Uncertainties

Pension and Other Post-retirement Plans

• We account for our defined benefit pension plans and other post-retirement plans in accordance with Financial Accounting Standards Board (FASB) Accounting Standards Update (ASC) Topic 715, *Compensation — Retirement Benefits*. We immediately recognize actuarial gains and losses in our operating results in the year in which the gains or losses occur. In 2019, we recognized a \$9.6 million benefit as a result of the recognition of these actuarial gains, which favorably impacted net income (loss), comprehensive income (loss) and the funded status of our pension plans. primarily the result of actual asset returns that were higher than our assumed returns and mortality assumptions. Partially offsetting these gains was a decrease in our discount rate.

Income Taxes

• We account for income taxes using the asset and liability method under ASC Topic 740. Under the asset and liability method, deferred tax assets and liabilities are recognized for the estimated future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. In addition, deferred tax assets are also recorded with respect to net operating losses and other tax attribute carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates in effect for the year in which those temporary differences are expected to be recovered or settled. Valuation allowances are established when realization of the benefit of deferred tax assets is not deemed to be more likely than not. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date.

• We recognize net tax benefits under the recognition and measurement criteria of ASC Topic 740, *Income Taxes*, which prescribes requirements and other guidance for financial statement recognition and measurement of positions taken or expected to be taken on tax returns. We record interest and penalties related to uncertain tax positions as a component of income tax expense.

• Asset returns and interest rates significantly affect the value of future assets and liabilities of our pension and post-retirement plans and therefore the funded status of our plans. It is difficult to predict these factors due to the volatility of market conditions.

• To develop our discount rate, we consider the yields of high-quality corporate bonds with maturities that correspond to the timing of our benefit obligations, referred to as the bond matching approach.

• To develop our expected long-term return on plan assets, we consider historical and forward looking long-term asset returns and the expected investment portfolio mix of plan assets. The weighted-average expected long-term rate of return on plan assets was 5.68% for 2019, 5.09% for 2018 and 6.08% for 2017.

• Life expectancy is a significant assumption that impacts our pension and other post-retirement benefits obligation. During 2019, we adopted the MP-2018 mortality improvement scale which was issued by the Society of Actuaries in October 2019.

• The ultimate recovery of certain of our deferred tax assets is dependent on the amount and timing of taxable income that we will ultimately generate in the future and other factors such as the interpretation of tax laws. We have provided valuation allowances as of December 31, 2019, aggregating to \$16.2 million primarily against certain foreign and state net operating loss carryforwards based on our current assessment of future operating results and other factors. At December 31, 2019, the gross liability for unrecognized income tax benefits, including interest and penalties, totaled \$12.6 million.

• Undistributed and indefinitely reinvested earnings for certain consolidated non-U.S. subsidiaries were approximately \$395 million as of December 31, 2019. No provision was made on these earnings as APB 23 of ASC 740-30 provides guidance that U.S. companies do not need to recognize tax effects on foreign earnings that are indefinitely reinvested. Additionally, no deferred income taxes were recorded on outside basis differences as it was not practicable to determine the provision impact, if any, due to the complexities associated with this calculation.

• The weighted average discount rates used to value our pension liabilities as of December 31, 2019 and 2018 were 4.11% and 3.62%, respectively, post-retirement liabilities were 3.98% and 3.60%, respectively. As of December 31, 2019, an increase/decrease in the discount rate of 50 basis points, holding all other assumptions constant, would have increased or decreased pre-tax income and the related pension and post-retirement liability by approximately \$19.4 million. An increase/decrease in the discount rate of 50 basis points as of December 31, 2019 would result in a change of approximately \$1.3 million in the 2020 net periodic benefit cost.

• The expected long-term return on plan assets utilized as of January 1, 2019 and 2018 was 5.68% and 5.09%, respectively. An increase/decrease in our expected long-term return on plan assets of 50 basis points as of December 31, 2019, would result in a change of approximately \$2.2 million to 2019 net periodic benefit cost.

• Although management believes that the estimates and judgments discussed herein are reasonable, actual results could differ, which could result in income tax expense or benefits that could be material.

Description	Judgments and Uncertainties	Effect if Actual Results Differ from Assumptions
<p>Goodwill</p> <ul style="list-style-type: none"> Goodwill represents the excess of the purchase price over the fair value of the net assets of acquired companies. We follow the guidance in ASC 350, <i>Intangibles — Goodwill and Other</i>, including subsequent updates, and test goodwill for impairment at least annually, absent a triggering event that would warrant an impairment assessment. On an ongoing basis, absent any impairment indicators, we perform our goodwill impairment testing as of the first day of October of each year. 	<ul style="list-style-type: none"> We have identified our reporting units at the operating segment level, or in most cases, one level below the operating segment level. Goodwill is allocated to the reporting units based on the estimated fair value at the date of acquisition. We estimated fair value using the best information available to us, including market information and discounted cash flow projections using the income approach. The income approach requires us to make assumptions and estimates regarding projected economic and market conditions, growth rates, operating margins and cash expenditures. Sensitivity analyses were performed around these assumptions in order to assess the reasonableness of the assumptions and the resulting estimated fair values. 	<ul style="list-style-type: none"> If actual results are not consistent with our assumptions and estimates, we may be exposed to goodwill impairment charges. The fair value of the reporting unit is based on a number of subjective factors including: (a) appropriate consideration of valuation approaches, (b) the consideration of our business outlook and (c) weighted average cost of capital (discount rate), growth rates and market multiples for our estimated cash flows. Based on our 2019 annual impairment test performed on October 1st, we determined there were no reporting units considered to be at risk of future impairment due to the fair value's proximity to the carrying value. We believe that the current assumptions and estimates are reasonable, supportable and appropriate. The business could be impacted by unforeseen changes in market factors or opportunities, which could impact our existing assumptions used in our impairment test. As such, there can be no assurance that these estimates and assumptions made for the purposes of the goodwill impairment test will prove to be accurate predictions of future performance.
<p>Indefinite-lived Intangible Assets</p> <ul style="list-style-type: none"> Indefinite-lived intangible assets represent trade names associated with acquired companies. 	<ul style="list-style-type: none"> We estimate the fair value of trade names using a "relief from royalty payments" approach. This approach involves two steps: (1) estimating reasonable royalty rate for the trade name and (2) applying this royalty rate to a net sales stream and discounting the resulting cash flows to determine fair value. Fair value is then compared with the carrying value of the trade name. 	<ul style="list-style-type: none"> If actual results are not consistent with our assumptions and estimates, we may be exposed to impairment charges related to our indefinite lived trade name Based on our 2019 annual impairment test, no trade names were considered at risk.

Recent and Future Adoption of Accounting Standards

Information regarding recent and future adoption of accounting standards can be found in Note 1, *Description of Business and Summary of Significant Accounting Policies*, to the accompanying consolidated financial statements and is incorporated by reference herein.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to certain market risks as part of our ongoing business operations, including risks from changes in interest rates on debt obligations and foreign currency exchange rates that could impact our financial condition, results of operations and cash flows. We manage our exposure to these and other market risks through regular operating and financing activities, including the use of derivative financial instruments. We intend to use these derivative financial instruments as risk management tools and not for speculative investment purposes.

Interest rate exposure — Interest on our revolving credit facility and senior secured term loan is based upon a Prime rate or LIBOR, plus a margin. Interest on the credit line with Saudi Hollandi Bank is based upon SAIBOR plus a fixed rate of 0.85%. There would be no material impact on our interest expense or cash flows from either a 10% increase or decrease in market rates of interest on our outstanding variable rate debt as of December 31, 2019.

Foreign currency exposure — We enter into intercompany transactions that are denominated in various foreign currencies and are subject to financial exposure from foreign exchange rate movement from the date a loan is recorded to the date it is settled or revalued. To mitigate this risk, we may enter into foreign exchange forward contracts and derivative instruments. Gains and losses on these contracts generally offset gains and losses on the assets and liabilities being hedged.

We face translation risks related to the changes in foreign currency exchange rates. Amounts invested in our foreign operations are translated into U.S. dollars at the exchange rates in effect at the balance sheet date. The resulting translation adjustments are recorded as a component of *Accumulated other comprehensive loss* in the Shareholders' equity section of the accompanying Consolidated Balance Sheets. Net sales and expenses in our foreign operations' foreign currencies are translated into varying amounts of U.S. dollars depending upon whether the U.S. dollar weakens or strengthens against other currencies. Therefore, changes in exchange rates may either positively or negatively affect our net sales and expenses from foreign operations as expressed in U.S. dollars.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

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MANAGEMENT'S REPORT

The management of PolyOne Corporation is responsible for preparing the consolidated financial statements and disclosures included in this Annual Report on Form 10-K. The consolidated financial statements and disclosures included in this Annual Report fairly present in all material respects the consolidated financial position, results of operations, shareholders' equity and cash flows of PolyOne Corporation as of and for the year ended December 31, 2019.

Management is responsible for establishing and maintaining disclosure controls and procedures designed to ensure that the information required to be disclosed by the Company is captured and reported in a timely manner. Management has evaluated the design and operation of the Company's disclosure controls and procedures at December 31, 2019 and found them to be effective.

Management is also responsible for establishing and maintaining a system of internal control over financial reporting that is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. Internal control over financial reporting includes policies and procedures that provide reasonable assurance that: PolyOne Corporation's accounting records accurately and fairly reflect the transactions and dispositions of the assets of the Company; unauthorized or improper acquisition, use or disposal of Company assets will be prevented or timely detected; the Company's transactions are properly recorded and reported to permit the preparation of the Company's consolidated financial statements in conformity with generally accepted accounting principles; and the Company's receipts and expenditures are made only in accordance with authorizations of management and the Board of Directors of the Company.

Management has assessed the effectiveness of PolyOne's internal control over financial reporting as of December 31, 2019 and has prepared Management's Annual Report On Internal Control Over Financial Reporting contained on page 68 of this Annual Report, which concludes that as of December 31, 2019, PolyOne's internal control over financial reporting is effective and that no material weaknesses were identified.

/s/ ROBERT M. PATTERSON

Robert M. Patterson
Chairman, President and Chief Executive Officer

/s/ BRADLEY C. RICHARDSON

Bradley C. Richardson
Executive Vice President and Chief Financial Officer

February 18, 2020

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Board of Directors and Shareholders of PolyOne Corporation

Opinion on Internal Control over Financial Reporting

We have audited PolyOne Corporation's internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, PolyOne Corporation (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of PolyOne Corporation as of December 31, 2019 and 2018, the related consolidated statements of income (loss), comprehensive income (loss), shareholders' equity and cash flows for each of the three years in the period ended December 31, 2019, and the related notes of PolyOne Corporation and our report dated February 18, 2020, expressed an unqualified opinion thereon.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying "Management's Annual Report on Internal Control over Financial Reporting." Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young

Cleveland, Ohio

February 18, 2020

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Board of Directors and Shareholders of PolyOne Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of PolyOne Corporation (the Company) as of December 31, 2019 and 2018, the related consolidated statements of income (loss), comprehensive income (loss), shareholders' equity and cash flows for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 18, 2020 expressed an unqualified opinion thereon.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Environmental Accrued Liabilities

Description of the Matter

As described in Note 11 to the consolidated financial statements, the environmental accrued liability as of December 31, 2019 is approximately \$112 million and is comprised primarily of the cost estimate for the Calvert City location of \$100.8 million. The Company records an accrual for probable future environmental remediation projects on an undiscounted basis which represents management's best estimate of probable future costs based upon currently available information and technology and management's view of the most likely remedy.

Auditing the determination of the accrual involved a high degree of subjectivity as estimates underlying the determination of the accrual were based on assumptions unique to the affected site and subject to various laws and regulations governing the protection of the applicable environment. Actual costs incurred in future periods could differ from amounts estimated and future changes to environmental laws and regulations could increase the extent of remediation work required, therefore the calculation is complicated due to uncertainty in determining the probable future costs and the extent of the remediation efforts.

*How We Addressed
the Matter in Our
Audit*

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the Company's process to establish the environmental accrued liability, including management's review and evaluation of the information included in the Calvert City Record of Decision and the Administrative Settlement Agreement and Order on Consent issued by the United States Environmental Protection Agency (USEPA). For example, we tested controls over management's review of the estimation and the significant assumptions used to develop future cost estimates. We also tested management's controls to validate that the data used in the accrual estimate was complete and accurate.

With the assistance of our specialist, we tested the balance of the environmental accrued liability and the disclosure of the expected cost to remediate. Our audit procedures included, among others, making inquiries of internal general counsel, obtaining internal general counsel's representation and external communications used in determining the environmental accrued liability. This included an evaluation of externally available information and a comparison of management's cost estimates to the estimates published in the Record of Decision by the USEPA. We tested the significant assumptions used by management by comparing those assumptions to accepted industry practice and information included in the Record of Decision issued by the USEPA. We examined historical costs for recurring items and compared those amounts to future projections for similar costs.

Quantitative Impairment Assessment of Goodwill

*Description of the
Matter*

At December 31, 2019, the Company's goodwill was approximately \$685.7 million. As discussed in Note 1 to the consolidated financial statements, goodwill is tested for impairment at least annually at the reporting unit level or at an interim date if potential impairment indicators are present. The Company's goodwill is initially assigned to its reporting units as of the acquisition date. Goodwill is tested for impairment, quantitatively or qualitatively, at the reporting unit level. As it relates to the quantitative approach, the Company uses an income approach to estimate the fair value of the reporting units using a combination of internal forecasts, external market information and discounted cash flow projections.

Auditing the impairment assessment of the quantitative goodwill assessment is complex as the income approach requires the Company to make assumptions and estimates regarding projected economic and market conditions, growth rates, operating margins and cash expenditures. The fair value of the reporting unit is based on a number of subjective factors including; (a) appropriate consideration of valuation approaches, (b) the consideration of the Company's business outlook, and (c) weighted average cost of capital (discount rate), annual and terminal growth rates and market multiples for estimated cash flows.

*How We Addressed
the Matter in Our
Audit*

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the quantitative impairment assessment of goodwill, including controls over management's review of the significant assumptions described above.

To test the estimated fair value of the Company's reporting units, we performed audit procedures that included, among others, assessing methodologies and testing the significant assumptions discussed above and the underlying data used by the Company in its analyses. We compared the significant assumptions used by management to current industry and economic trends. We assessed the historical accuracy of management's estimates and performed sensitivity analyses of significant assumptions to evaluate the changes in the fair value of the reporting units that would result from changes in the assumptions. We also utilized our specialist to assist in the review of the methodology, weighted average cost of capital and terminal growth rates used by the Company.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Ernst & Young LLP

We have served as PolyOne Corporation's auditor since 1993.

Cleveland, Ohio

February 18, 2020

Consolidated Statements of Income (Loss)

(In millions, except per share data)	Year Ended December 31,		
	2019	2018	2017
Sales	\$ 2,862.7	\$ 2,881.0	\$ 2,590.3
Cost of sales	2,205.5	2,256.2	1,993.9
Gross margin	657.2	624.8	596.4
Selling and administrative expense	500.4	446.2	423.3
Operating income	156.8	178.6	173.1
Interest expense, net	(59.5)	(62.8)	(60.8)
Debt extinguishment costs	—	(1.1)	(0.3)
Other income (expense), net	12.1	(12.9)	(0.1)
Income from continuing operations before income taxes	109.4	101.8	111.9
Income tax expense	(33.7)	(14.4)	(0.8)
Net income from continuing operations	75.7	87.4	111.1
Income (loss) from discontinued operations, net of income taxes	513.1	72.1	(168.7)
Net income (loss)	588.8	159.5	(57.6)
Net (income) loss attributable to noncontrolling interests	(0.2)	0.3	(0.1)
Net income (loss) attributable to PolyOne common shareholders	\$ 588.6	\$ 159.8	\$ (57.7)
Earnings (loss) per share attributable to PolyOne common shareholders - Basic:			
Continuing operations	\$ 0.98	\$ 1.10	\$ 1.36
Discontinued operations	6.64	0.91	(2.07)
Total	\$ 7.62	\$ 2.01	\$ (0.71)
Earnings (loss) per share attributable to PolyOne common shareholders - Diluted:			
Continuing operations	\$ 0.97	\$ 1.09	\$ 1.35
Discontinued operations	6.61	0.90	(2.05)
Total	\$ 7.58	\$ 1.99	\$ (0.70)
Weighted-average shares used to compute earnings per common share:			
Basic	77.2	79.7	81.5
Plus dilutive impact of share-based compensation	0.5	0.7	0.6
Diluted	77.7	80.4	82.1
Anti-dilutive shares not included in diluted common shares outstanding			
	0.6	—	0.6
Cash dividends declared per share of common stock			
	\$ 0.788	\$ 0.720	\$ 0.580

The accompanying notes to the consolidated financial statements are an integral part of these statements.

Consolidated Statements of Comprehensive Income (Loss)

(In millions)	Year Ended December 31,		
	2019	2018	2017
Net income (loss)	\$ 588.8	\$ 159.5	\$ (57.6)
Other comprehensive (loss) income, net of tax:			
Translation adjustments and related hedging instruments	2.2	(27.6)	41.2
Cash flow hedges	(2.5)	(1.3)	—
Other	—	(0.4)	—
Total other comprehensive (loss) income	(0.3)	(29.3)	41.2
Total comprehensive income (loss)	588.5	130.2	(16.4)
Comprehensive (income) loss attributable to noncontrolling interests	(0.2)	0.3	(0.1)
Comprehensive income (loss) attributable to PolyOne common shareholders	<u>\$ 588.3</u>	<u>\$ 130.5</u>	<u>\$ (16.5)</u>

The accompanying notes to the consolidated financial statements are an integral part of these statements.

Consolidated Balance Sheets

(In millions, except par value per share)	Year Ended December 31,	
	2019	2018
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 864.7	\$ 170.9
Accounts receivable, net	330.0	347.2
Inventories, net	260.9	284.6
Current assets held for sale	—	129.7
Other current assets	57.7	66.4
Total current assets	1,513.3	998.8
Property, net	407.4	384.5
Goodwill	685.7	639.1
Intangible assets, net	469.3	422.4
Operating lease assets, net	63.8	—
Non-current assets held for sale	—	124.5
Other non-current assets	133.8	154.0
Total assets	\$ 3,273.3	\$ 2,723.3
LIABILITIES AND SHAREHOLDERS' EQUITY		
Current liabilities:		
Short-term and current portion of long-term debt	\$ 18.4	\$ 19.4
Accounts payable	287.7	305.0
Current operating lease obligations	21.0	—
Current liabilities held for sale	—	104.5
Accrued expenses and other current liabilities	375.4	128.7
Total current liabilities	702.5	557.6
Non-current liabilities:		
Long-term debt	1,210.9	1,336.2
Pension and other post-retirement benefits	56.6	54.3
Deferred income taxes	63.5	69.1
Non-current operating lease obligations	42.8	—
Non-current liabilities held for sale	—	3.3
Other non-current liabilities	144.3	162.2
Total non-current liabilities	1,518.1	1,625.1
SHAREHOLDERS' EQUITY		
Common Shares, \$0.01 par, 400.0 shares authorized, 122.2 shares issued	1.2	1.2
Additional paid-in capital	1,175.2	1,166.9
Retained earnings	1,001.2	472.9
Common shares held in treasury, at cost, 45.3 shares in 2019 and 44.5 shares in 2018	(1,043.1)	(1,018.7)
Accumulated other comprehensive loss	(82.6)	(82.3)
PolyOne shareholders' equity	1,051.9	540.0
Noncontrolling interest	0.8	0.6
Total equity	1,052.7	540.6
Total liabilities and equity	\$ 3,273.3	\$ 2,723.3

The accompanying notes to the consolidated financial statements are an integral part of these statements.

Consolidated Statements of Cash Flows

(In millions)	Year Ended December 31,		
	2019	2018	2017
Operating activities			
Net income (loss)	\$ 588.8	\$ 159.5	\$ (57.6)
Adjustments to reconcile net income (loss) to net cash provided by operating activities:			
(Gain) Loss on sale of business, net of tax	(457.7)	—	227.7
Depreciation and amortization	87.5	88.5	97.4
Accelerated depreciation and fixed asset charges associated with restructuring activities	—	3.0	0.9
Gain from sale of closed facilities	—	—	(3.6)
Deferred income tax benefit	(3.2)	(4.8)	(1.4)
Debt extinguishment costs	—	1.1	0.3
Share-based compensation expense	12.3	10.9	10.2
Changes in assets and liabilities, net of the effect of acquisitions:			
Decrease (increase) in accounts receivable	29.7	(11.3)	(44.7)
Decrease (increase) in inventories	40.2	(10.6)	(41.1)
(Decrease) increase in accounts payable	(22.7)	7.9	52.2
(Decrease) increase in pension and other post-retirement benefits	(19.7)	4.8	(9.6)
Increase in post-acquisition earnouts	36.4	0.7	—
Increase (decrease) in accrued expenses and other assets and liabilities - net	9.2	4.0	(28.3)
Net cash provided by operating activities	300.8	253.7	202.4
Investing activities			
Capital expenditures	(81.7)	(76.0)	(79.6)
Business acquisitions, net of cash acquired	(119.6)	(98.6)	(163.8)
Net proceeds from divestiture	761.8	—	111.0
Net proceeds from other assets	51.4	4.3	13.0
Net cash provided (used) by investing activities	611.9	(170.3)	(119.4)
Financing activities			
Borrowings under credit facilities	963.4	1,152.9	1,472.9
Repayments under credit facilities	(1,083.9)	(1,090.3)	(1,417.0)
Purchase of common shares for treasury	(26.9)	(123.0)	(70.7)
Cash dividends paid	(60.3)	(56.1)	(44.1)
Repayment of other debt	(1.8)	(16.4)	—
Repayment of long-term debt	(6.5)	(6.5)	(6.5)
Payments on withholding tax on share awards	(2.1)	(4.1)	(4.7)
Debt financing costs	(0.2)	(4.6)	(2.6)
Net cash used by financing activities	(218.3)	(148.1)	(72.7)
Effect of exchange rate changes on cash	(0.6)	(8.0)	6.6
Increase (decrease) in cash and cash equivalents	693.8	(72.7)	16.9
Cash and cash equivalents at beginning of year	170.9	243.6	226.7
Cash and cash equivalents at end of year	\$ 864.7	\$ 170.9	\$ 243.6

The accompanying notes to the consolidated financial statements are an integral part of these statements.

Consolidated Statements of Shareholders' Equity

(In millions)	Common Shares		Shareholders' Equity							
	Common Shares	Common Shares Held in Treasury	Common Shares	Additional Paid-in Capital	Retained Earnings	Common Shares Held in Treasury	Accumulated Other Comprehensive Loss	Total PolyOne shareholders' equity	Non-controlling Interests	Total equity
Balance at January 1, 2017	122.2	(39.6)	\$ 1.2	\$ 1,157.1	\$ 491.2	\$ (830.6)	\$ (94.2)	\$ 724.7	\$ 0.8	\$ 725.5
Net (loss) income	—	—	—	—	(57.7)	—	—	(57.7)	0.1	(57.6)
Other comprehensive income	—	—	—	—	—	—	41.2	41.2	—	41.2
Cash dividends declared	—	—	—	—	(46.9)	—	—	(46.9)	—	(46.9)
Repurchase of common shares	—	(2.0)	—	—	—	(70.7)	—	(70.7)	—	(70.7)
Stock-based compensation and exercise of awards	—	0.3	—	4.4	—	3.0	—	7.4	—	7.4
Other ⁽²⁾	—	—	—	—	0.5	—	—	0.5	—	0.5
Balance at December 31, 2017	122.2	(41.3)	\$ 1.2	\$ 1,161.5	\$ 387.1	\$ (898.3)	\$ (53.0)	\$ 598.5	\$ 0.9	\$ 599.4
Net income (loss)	—	—	—	—	159.8	—	—	159.8	(0.3)	159.5
Other comprehensive loss	—	—	—	—	—	—	(29.3)	(29.3)	—	(29.3)
Cash dividends declared	—	—	—	—	(57.5)	—	—	(57.5)	—	(57.5)
Repurchase of common shares	—	(3.4)	—	—	—	(123.0)	—	(123.0)	—	(123.0)
Stock-based compensation and exercise of awards	—	0.2	—	5.4	—	2.6	—	8.0	—	8.0
Other ⁽²⁾	—	—	—	—	(16.5)	—	—	(16.5)	—	(16.5)
Balance at December 31, 2018	122.2	(44.5)	\$ 1.2	\$ 1,166.9	\$ 472.9	\$ (1,018.7)	\$ (82.3)	\$ 540.0	\$ 0.6	\$ 540.6
Net income	—	—	—	—	588.6	—	—	588.6	0.2	588.8
Other comprehensive loss	—	—	—	—	—	—	(0.3)	(0.3)	—	(0.3)
Cash dividends declared	—	—	—	—	(60.3)	—	—	(60.3)	—	(60.3)
Repurchase of common shares	—	(1.0)	—	—	—	(26.9)	—	(26.9)	—	(26.9)
Stock-based compensation and exercise of awards	—	0.2	—	8.3	—	2.5	—	10.8	—	10.8
Balance at December 31, 2019	122.2	(45.3)	\$ 1.2	\$ 1,175.2	\$ 1,001.2	\$ (1,043.1)	\$ (82.6)	\$ 1,051.9	\$ 0.8	\$1,052.7

⁽¹⁾ Dividends declared per share were \$0.788, \$0.720, and \$0.580 for the years ended December 31, 2019, 2018, and 2017, respectively.

⁽²⁾ In October 2016, the FASB issued ASU 2016-16, *Income Taxes (Topic 740), Intra-Entity Transfers of Assets Other than Inventory* (ASU 2016-16), which requires companies to recognize the income tax effects of intercompany sales or transfers of assets, other than inventory, in the income statement as income tax expense or benefit in the period the sale or transfer occurs. We recognized an adjustment of \$17.0 million to beginning retained earnings upon adoption of this standard on January 1, 2018 from transactions completed as of December 31, 2017.

The accompanying notes to the consolidated financial statements are an integral part of these statements.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 1 — DESCRIPTION OF BUSINESS AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Description of Business

We are a premier provider of specialized and sustainable polymer materials and polymer services and solutions. Our products include specialty engineered materials, advanced composites, color and additive systems and polymer distribution. We are also a highly specialized developer and manufacturer of performance enhancing additives, liquid colorants, and fluoropolymer and silicone colorants. Headquartered in Avon Lake, Ohio, we have employees at manufacturing sites and distribution facilities across North America, South America, Europe and Asia. We provide value to our customers through our ability to link our knowledge of polymers and formulation technology with our manufacturing and supply chain to provide value added solutions to designers, assemblers and processors of plastics (our customers). When used in these notes to the consolidated financial statements, the terms “we,” “us,” “our,” “PolyOne” and the “Company” mean PolyOne Corporation and its consolidated subsidiaries.

Our operations are located primarily in North America, South America, Europe and Asia. Our operations are reported in three reportable segments: Color, Additives and Inks; Specialty Engineered Materials; and Distribution. See Note 14, *Segment Information*, for more information.

Accounting Standards Adopted

On January 1, 2019, the Company adopted Accounting Standards Codification (ASC) 842, *Leases* (ASC 842). ASC 842 was issued to increase transparency and comparability among entities by recognizing right-of-use assets and lease liabilities on the balance sheet and disclosing key information about lease arrangements.

We elected to transition to ASC 842 using the option to apply the standard on its effective date, January 1, 2019. The comparative periods presented reflect the former lease accounting guidance and the required comparative disclosures are included in Note 6, *Leasing Arrangements*. There was not a material cumulative-effect adjustment to our beginning retained earnings as a result of adopting ASC 842. We have recognized additional operating lease assets and obligations of \$72.3 million and \$63.8 million as of January 1, 2019 and December 31, 2019, respectively. We elected to not reassess prior conclusions related to the identification, classification and accounting for initial direct costs for leases that commenced prior to January 1, 2019. Additionally, we elected to not use hindsight to determine lease terms and to not separate non-lease components within our lease portfolio. For additional disclosure and detail, see Note 6, *Leasing Arrangements*.

In March 2017, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2017-07, *Compensation - Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost* (ASU 2017-07). This standard requires the presentation of the service cost component of the net periodic benefit cost in the same income statement line item as other employee compensation costs arising from services rendered during the period. All other components of net periodic benefit cost must be presented below operating income. The Company has adopted ASU 2017-07 on January 1, 2018.

ASU 2017-07 provides a practical expedient to utilize previously disclosed components of net periodic benefit costs as an estimate for retrospective presentation. Utilizing this practical expedient, the Company reclassified non-service components of net periodic benefit cost from Cost of sales and Selling and administrative expense into Other income, net on the Consolidated Statements of Income. The adoption of ASU 2017-07 resulted in \$9.6 million of costs for the year ended December 31, 2018 and a gain of \$4.7 million for the year ended December 31, 2017 of the non-service components of net periodic benefit presented in Other income, net. For additional detail on the components of our annual net periodic benefit cost, see Note 10, *Employee Benefit Plans*.

In October 2016, the FASB issued ASU 2016-16, *Income Taxes (Topic 740), Intra-Entity Transfers of Assets Other than Inventory* (ASU 2016-16), which requires companies to recognize the income tax effects of intercompany sales or transfers of assets, other than inventory, in the income statement as income tax expense or benefit in the period the sale or transfer occurs. We recognized an adjustment of \$17.0 million to beginning retained earnings upon adoption of this standard on January 1, 2018 from transactions completed as of December 31, 2017.

Accounting Standards Not Yet Adopted

In June 2016, the FASB issued ASU 2016-13, *Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments* (ASU 2016-13). ASU 2016-13 changes the impairment model for most financial instruments. Current guidance requires the recognition of credit losses based on an incurred loss impairment methodology that reflects losses once the losses are probable. Under ASU 2016-13, the Company will be required to use a current expected credit loss model (CECL) that will immediately recognize an estimate of credit losses that are expected to occur over the life of the financial instruments that are in the scope of this update,

including trade receivables. The CECL model uses a broader range of reasonable and supportable information in the development of credit loss estimates. This guidance became effective for the Company on January 1, 2020, including the interim periods in the year. The Company is in the process of finalizing the business processes and controls to support recognition of credit losses and related disclosures under the new standard. We currently do not expect ASU 2016-13 to have a material effect on our consolidated financial statements and related disclosures.

Consolidation and Basis of Presentation

The consolidated financial statements include the accounts of PolyOne and its subsidiaries. All majority-owned affiliates over which we have control are consolidated. Transactions with related parties, including joint ventures, are in the ordinary course of business.

Historical information has been retrospectively adjusted to reflect the classification of discontinued operations. Discontinued operations are further discussed in Note 3, *Discontinued Operations*.

Use of Estimates

Preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions in certain circumstances that affect amounts reported in the accompanying consolidated financial statements and notes. Actual results could differ from these estimates.

Cash and Cash Equivalents

We consider all highly liquid investments purchased with a maturity of less than three months to be cash equivalents. Cash equivalents are stated at cost, which approximates fair value.

Allowance for Doubtful Accounts

We evaluate the collectability of receivables based on a combination of factors, each of which are adjusted if specific circumstances change. We reserve for amounts determined to be uncollectible based on a specific customer's inability to meet its financial obligation to us. We also record a general reserve based on the age of receivables past due, economic conditions and historical experience. In estimating the allowance, we take into consideration the existence of credit insurance. The allowance for doubtful accounts was \$2.6 million and \$2.3 million as of December 31, 2019 and 2018, respectively.

Inventories

External purchases of raw materials and finished goods are valued at weighted average cost. Raw materials and finished goods are stated at the lower of cost or market using the first-in, first-out (FIFO) method.

Long-lived Assets

Property, plant and equipment is carried at cost, net of depreciation and amortization that is computed using the straight-line method over the estimated useful lives of the assets, which generally ranges from three to 15 years for machinery and equipment and up to 40 years for buildings. We depreciate certain assets associated with closing manufacturing locations over a shortened life (through the cease-use date). Software is amortized over periods not exceeding 10 years. Property, plant and equipment is generally depreciated on accelerated methods for income tax purposes. We expense repair and maintenance costs as incurred. We capitalize replacements and betterments that increase the estimated useful life of an asset.

We retain fully depreciated assets in property and accumulated depreciation accounts until we remove them from service. In the case of sale, retirement or disposal, the asset cost and related accumulated depreciation balance is removed from the respective account, and the resulting net amount, less any proceeds, is included as a component of income from continuing operations in the accompanying Consolidated Statements of Income (Loss).

We account for operating and capital leases under the provisions of FASB ASC Topic 842, *Leases*.

Finite-lived intangible assets, which consist primarily of customer relationships, patents and technology are amortized over their estimated useful lives. The remaining useful lives range up to 20 years.

We assess the recoverability of long-lived assets when events or changes in circumstances indicate that we may not be able to recover the assets' carrying amount. We measure the recoverability of assets to be held and used by a comparison of the carrying amount of the asset to the expected future undiscounted cash flows associated with the asset. We measure the amount of impairment of long-lived assets as the amount by which the carrying value of the asset exceeds the fair value of the asset, which is generally determined based on projected discounted future cash flows or appraised values. No such impairments were recognized during 2019, 2018 or 2017.

Goodwill and Indefinite Lived Intangible Assets

In accordance with the provisions of FASB ASC Topic 350, *Intangibles — Goodwill and Other*, we assess the fair value of goodwill, quantitatively or qualitatively, on an annual basis or at an interim date if potential impairment indicators are present. Goodwill is the excess of the purchase price paid over the fair value of the net assets of the acquired business. Goodwill is tested for impairment, quantitatively or qualitatively, at the reporting unit level. Our reporting units have been identified at the operating segment level, or in most cases, one level below the operating segment level. Goodwill is allocated to the reporting units based on the estimated fair value at the date of acquisition.

Our annual measurement date for testing impairment of goodwill and indefinite-lived intangibles is October 1. We completed our testing of impairment as of October 1, noting no impairment in 2019, 2018 or 2017. There are no reporting units identified as at-risk of future impairment. The future occurrence of a potential indicator of impairment would require an interim assessment for some or all of the reporting units prior to the next required annual assessment on October 1, 2020.

We test our goodwill either quantitatively or qualitatively for impairment. For our quantitative approach, we use an income approach to estimate the fair value of our reporting units. The income approach uses a reporting unit's projection of estimated operating results and cash flows that is discounted using a weighted-average cost of capital that is determined based on current market conditions. The projection uses management's best estimates of economic and market conditions over the projected period including growth rates in sales, costs and number of units, estimates of future expected changes in operating margins and cash expenditures. Other significant estimates and assumptions include terminal value growth rates, terminal value margin rates, future capital expenditures and changes in future working capital requirements. We validate our estimates of fair value under the income approach by considering the implied control premium and conclude whether the implied control premium is reasonable based on other recent market transactions.

A qualitative approach for both goodwill and indefinite-lived intangible assets is performed if the last quantitative test exceeded certain thresholds. During our qualitative approach, we assess whether the existence of events or circumstances leads to a determination that it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If, after assessing the totality of events and circumstances, we determine it is more likely than not that the fair value is less than carrying value, a quantitative impairment test is performed for each asset, as described above.

Indefinite-lived intangible assets primarily consist of the GLS, ColorMatrix, Gordon Composites, and Fiber-Line trade names. Indefinite-lived intangible assets are tested, quantitatively or qualitatively, for impairment annually at the same time we test goodwill for impairment. For our quantitative approach, the implied fair value of indefinite-lived intangible assets is determined based on significant unobservable inputs, as summarized below. The fair value of the trade names is calculated using a "relief from royalty" methodology. This approach involves two steps (1) estimating reasonable royalty rates for the trade name and (2) applying this royalty rate to a net sales stream and discounting the resulting cash flows to determine fair value using a weighted-average cost of capital that is determined based on current market conditions. This fair value is then compared with the carrying value of the trade name.

Litigation Reserves

FASB ASC Topic 450, *Contingencies*, requires that we accrue for loss contingencies associated with outstanding litigation, claims and assessments for which management has determined it is probable that a loss contingency exists and the amount of loss can be reasonably estimated. We recognize expense associated with professional fees related to litigation claims and assessments as incurred. Refer to Note 11, *Commitments and Contingencies*, for further information.

Derivative Financial Instruments

FASB ASC Topic 815, *Derivative and Hedging*, requires that all derivative financial instruments, such as foreign exchange contracts, be recognized in the financial statements and measured at fair value, regardless of the purpose or intent in holding them.

We are exposed to foreign currency changes and to changes in cash flows due to changes in our contractually specified interest rates (e.g., LIBOR) in the normal course of business. We have established policies and procedures that manage this exposure through the use of financial instruments. By policy, we do not enter into these instruments for trading purposes or speculation. We formally assess, designate and document, as a hedge of an underlying exposure, the qualifying derivative instrument that will be accounted for as an accounting hedge at inception. Additionally, in accordance with ASU 2017-12, we assess at inception whether the financial instruments

used in the hedging transaction are highly effective at offsetting changes in either the fair values or cash flows of the underlying exposures. If highly effective, any subsequent test may be done qualitatively.

The net interest payments accrued each month for effective instruments designated as a hedge are reflected in net income as adjustments of interest expense and the remaining change in the fair value of the derivatives is recorded as a component of *Accumulated Other Comprehensive Income (AOCI)*. Instruments not designated as hedges are adjusted to fair value at each period end, with the resulting gains and losses recognized in the accompanying Consolidated Statements of Income (Loss) immediately.

Refer to Note 15, *Derivatives and Hedging*, for more information.

Pension and Other Post-retirement Plans

We account for our pensions and other post-retirement benefits in accordance with FASB ASC Topic 715, *Compensation — Retirement Benefits*. We immediately recognize actuarial gains and losses in our operating results in the year in which the gains or losses occur. Refer to Note 10, *Employee Benefit Plans*, for more information.

Accumulated Other Comprehensive Loss

Changes in accumulated other comprehensive loss in 2019, 2018 and 2017 were as follows:

(In millions)	Cumulative Translation Adjustment and Related Hedging Instruments	Pension and other post- retirement benefits	Cash Flow Hedges	Other	Total
Balance at January 1, 2017	\$ (99.8)	\$ 5.2	\$ —	\$ 0.4	\$ (94.2)
Translation Adjustments	41.2	—	—	—	41.2
Balance at December 31, 2017	(58.6)	5.2	—	0.4	(53.0)
Translation Adjustments	(25.6)	—	—	—	(25.6)
Unrealized losses	(2.0)	—	(1.3)	—	(3.3)
Other	—	—	—	(0.4)	(0.4)
Balance at December 31, 2018	(86.2)	5.2	(1.3)	—	(82.3)
Translation Adjustments	(6.9)	—	—	—	(6.9)
Unrealized gains (losses)	9.1	—	(2.5)	—	6.6
Balance at December 31, 2019	<u>\$ (84.0)</u>	<u>\$ 5.2</u>	<u>\$ (3.8)</u>	<u>\$ —</u>	<u>\$ (82.6)</u>

Fair Value of Financial Instruments

FASB ASC Topic 820, *Fair Value Measurements and Disclosures*, requires disclosures of the fair value of financial instruments. The estimated fair values of financial instruments were principally based on market prices where such prices were available and, where unavailable, fair values were estimated based on market prices of similar instruments.

Foreign Currency Translation

Revenues and expenses are translated at average currency exchange rates during the related period. Assets and liabilities of foreign subsidiaries are translated using the exchange rate at the end of the period. The resulting translation adjustments are recorded as accumulated other comprehensive income or loss. Gains and losses resulting from foreign currency transactions, including intercompany transactions that are not considered long-term investments, are included in *Other income (expense), net* in the accompanying Consolidated Statements of Income (Loss).

Revenue Recognition

We recognize revenue once control of the product is transferred to the customer, which typically occurs when products are shipped from our facilities.

Shipping and Handling Costs

Shipping and handling costs are included in cost of sales.

Research and Development Expense

Research and development costs of \$50.6 million in 2019, \$49.6 million in 2018 and \$45.3 million in 2017 are charged to expense as incurred.

Environmental Costs

We expense costs that are associated with managing hazardous substances and pollution in ongoing operations on a current basis. Costs associated with environmental contamination are accrued when it becomes probable that a liability has been incurred and our proportionate share of the cost can be reasonably estimated. Any such provision is recognized using the Company's best estimate of the amount of loss incurred, or at the lower end of an estimated range, when a single best estimate is not determinable. In some cases, the Company may be able to recover a portion of the costs relating to these obligations from insurers or other third parties; however, the Company records such amounts only when they are collected.

Share-Based Compensation

We account for share-based compensation under the provisions of FASB ASC Topic 718, *Compensation - Stock Compensation*, which requires us to estimate the fair value of share-based awards on the date of grant. The value of the portion of the award that is ultimately expected to vest is recognized as expense over the requisite service periods in the accompanying Consolidated Statements of Income (Loss). As of December 31, 2019, we had one active share-based employee compensation plan, which is described more fully in Note 13, *Share-Based Compensation*.

Income Taxes

Deferred income tax liabilities and assets are determined based upon the differences between the financial reporting and tax basis of assets and liabilities and are measured using the tax rate and laws currently in effect. In accordance with FASB ASC Topic 740, *Income Taxes*, we evaluate our deferred income taxes to determine whether a valuation allowance should be established against the deferred tax assets or whether the valuation allowance should be reduced based on consideration of all available evidence, both positive and negative, using a "more likely than not" standard. See Note 12, *Income Taxes*, for additional detail.

Note 2 — BUSINESS COMBINATIONS

On December 19, 2019, we entered into a definitive share purchase agreement (the Agreement) with Clariant AG, a corporation organized and existing under the laws of Switzerland (Clariant), and through one of our wholly owned subsidiaries, a definitive business transfer agreement (the BTA), with Clariant Chemicals (India) Limited, a public limited company incorporated in India and an indirect majority-owned subsidiary of Clariant (Clariant India). Pursuant to the Agreement, we have agreed to acquire Clariant's global masterbatch business outside of India, and pursuant to the BTA, we have agreed to purchase Clariant India's masterbatch business, for a net purchase price of \$1.45 billion in cash, subject to customary working capital and net debt adjustments. Each of the Agreement and the BTA contain certain customary termination rights, and, with respect to the Agreement only, the requirement that PolyOne pay a termination fee in the event the Agreement is terminated under certain conditions. The closing of each acquisition is expected to occur in mid-2020, subject to the receipt of regulatory approvals, the satisfaction or waiver of customary closing conditions and, in the case of the Clariant India masterbatch acquisition, shareholder approval of Clariant India. In connection with the Clariant Acquisition, on December 19, 2019, we entered into a Commitment Letter with a number of banks (the Commitment Parties), pursuant to which the Commitment Parties have provided a 12-month commitment for a \$1.15 billion senior unsecured bridge loan facility (the Bridge Facility) for purposes of funding the Clariant Acquisition. The Commitment Parties' commitments under the Bridge Facility were subsequently reduced on a dollar-for-dollar basis by the net proceeds from the issuance of common shares described below. The Company currently intends to issue new senior unsecured notes in lieu of borrowing under the Bridge Facility. We intend to use (i) a portion of the net proceeds from the sale of our Performance Products and Solutions segment (PP&S), (ii) the net proceeds from the issuance of common shares in an underwritten public offering that we completed in February 2020 and (iii) the net proceeds of a senior unsecured notes offering to finance the Clariant Acquisition, including the payment of related fees and expenses.

On January 2, 2019, the Company acquired Fiber-Line, LLC (Fiber-Line), a global leader in polymer coated engineered fibers and composite materials, for total consideration of \$152.7 million, net of cash acquired and inclusive of contingent consideration. Fiber-Line's results are reported in the Specialty Engineered Materials segment. The purchase price allocation resulted in intangible assets of \$77.1 million, goodwill of \$47.0 million, and net working capital of \$24.9 million. Of the total goodwill, \$22.9 million was deductible for U.S. federal income tax purposes. The definite-lived intangible assets that have been acquired are being amortized over a period of five to 19 years. Fiber-Line's sales included in the Company's results for the twelve months ended December 31, 2019 were \$114.7 million.

Our acquisitions of PlastiComp, Inc. (PlastiComp) on May 31, 2018 and Fiber-Line have contingent consideration that includes earnouts payable over periods of up to two years in the event that certain operating results are

achieved. The PlastiComp earnout has a ceiling of \$35 million. The Fiber-Line earnout is based on two annual earnout periods, with the second earnout period target based on year-one results. We estimate the total earnout payment for Fiber-Line to be in the range of \$55 to \$70 million. The earnouts are considered Level 3 under the fair value hierarchy as the fair value is based on unobservable inputs, which require PolyOne to develop its own assumptions. The earnouts are valued each quarter using Monte Carlo simulation analyses in a risk-neutral framework with assumptions for volatility, risk-free rate and dividend yield. As of December 31, 2019, we had recorded a total of \$87.9 million of contingent consideration liabilities for both acquisitions, all of which was reflected within *Accrued expenses and other current liabilities* on the Condensed Consolidated Balance Sheets. During the twelve months ended December 31, 2019, the Company recorded charges of \$36.4 million, associated with the earnouts within *Selling and administrative expense* on the Condensed Consolidated Statements of Income that was primarily attributable to improved earnings from the acquisitions.

The fair value of intangible assets acquired during the year ended December 31, 2019, including their estimated useful lives are as follows:

(In millions)	Fair Value	Useful Life
Customer relationships	\$ 9.0	16
Patents, technology and other	58.9	5 - 19
Indefinite-lived trade names	9.2	N/A
Total	<u>\$ 77.1</u>	

Note 3 — DISCONTINUED OPERATIONS

On July 19, 2017, PolyOne divested its Designed Structures and Solutions segment (DSS) for \$115.0 million cash. The sale resulted in the recognition of an after-tax loss of \$229.0 million that was primarily recognized during the second quarter of 2017.

The following table summarizes the discontinued operations associated with DSS for the years ended December 31, 2018 and 2017, which is reflected within the *Loss from discontinued operations, net of income taxes* line of the Consolidated Statements of Income (Loss):

(In millions)	2018	2017
Sales	\$ —	\$ 222.1
Loss on sale	\$ (1.8)	\$ (295.6)
Loss from Operations	—	(8.6)
Loss before taxes	(1.8)	(304.2)
Income tax benefit	0.5	73.0
Loss from discontinued operations, net of taxes	<u>\$ (1.3)</u>	<u>\$ (231.2)</u>

On October 25, 2019, PolyOne divested PP&S for \$775.0 million cash subject to a customary working capital adjustment. The sale resulted in the recognition of an after-tax gain of \$457.7 million, which is reflected within the *Income (loss) from discontinued operations, net of income taxes* line of the Consolidated Statements of Income (Loss).

PolyOne has continuing involvement with the former PP&S business following the close of the transaction. The Company entered into a four-year distribution agreement with the former PP&S business to be the exclusive distributor for certain products, under terms that were similar prior to the disposal transaction. PolyOne and the former PP&S business have also entered into contract manufacturing and supply agreements for certain products for a two-year period.

The following table summarizes the discontinued operations associated with PP&S for the years ended December 31, 2019, 2018 and 2017, which is reflected within the *Income (loss) from discontinued operations, net of income taxes* line of the Consolidated Statements of Income (Loss):

(In millions)	2019	2018	2017
Sales	\$ 488.9	\$ 652.4	\$ 639.6
Cost of sales	(390.1)	(532.3)	(517.1)
Selling and administrative expense	(28.0)	(24.7)	(22.1)
Gain on sale	591.2	—	—
Pretax income of discontinued operations	662.0	95.4	100.4
Income tax expense	(148.9)	(22.0)	(37.9)
Income from discontinued operations, net of taxes	<u>\$ 513.1</u>	<u>\$ 73.4</u>	<u>\$ 62.5</u>

The following table summarizes the major classes of assets and liabilities of PP&S that were classified as held for sale in the consolidated balance sheets as of December 31, 2018:

(In millions)	Year Ended December 31, 2018
Assets:	
Current assets:	
Accounts receivable, net	\$ 66.2
Inventories, net	60.1
Other current assets	3.4
Current assets held for sale	129.7
Non-current assets:	
Property, net	\$ 110.9
Goodwill	11.2
Other non-current assets	2.4
Non-current assets held for sale	124.5
Total assets held for sale	<u>\$ 254.2</u>
Liabilities	
Current liabilities:	
Accounts payable	\$ 94.0
Other current liabilities	10.5
Current liabilities held for sale	104.5
Non-current liabilities held for sale	3.3
Total liabilities held for sale	<u>\$ 107.8</u>

The following table presents the depreciation, amortization, and capital expenditures of our discontinued operations for the twelve months ended December 31, 2019, 2018 and 2017. There were no other significant operating or investing non-cash items for the twelve months ended December 31, 2019, 2018 and 2017.

(In millions)	Year Ended December 31,		
	2019	2018	2017
Depreciation and amortization	\$ 9.4	\$ 15.9	\$ 30.1
Capital Expenditures	14.1	19.5	25.2

Note 4 — GOODWILL AND INTANGIBLE ASSETS

The total purchase price associated with acquisitions is allocated to the fair value of assets acquired and liabilities assumed based on their fair values at the acquisition date, with excess amounts recorded as goodwill.

Goodwill as of December 31, 2019 and 2018 and changes in the carrying amount of goodwill by segment were as follows:

(In millions)	Specialty Engineered Materials	Color, Additives and Inks	PolyOne Distribution	Total
Balance at January 1, 2018	\$ 173.2	\$ 424.5	\$ 1.6	\$ 599.3
Acquisition of businesses	16.3	25.8	—	42.1
Currency translation	(0.6)	(1.7)	—	(2.3)
Balance at December 31, 2018	188.9	448.6	1.6	639.1
Acquisition of businesses	47.9	—	—	47.9
Currency translation	(0.5)	(0.8)	—	(1.3)
Balance at December 31, 2019	\$ 236.3	\$ 447.8	\$ 1.6	\$ 685.7

Indefinite and finite-lived intangible assets consisted of the following:

(In millions)	As of December 31, 2019			
	Acquisition Cost	Accumulated Amortization	Currency Translation	Net
Customer relationships	\$ 286.8	\$ (89.1)	\$ (1.0)	\$ 196.7
Patents, technology and other	244.0	(79.6)	(1.3)	163.1
Indefinite-lived trade names	109.5	—	—	109.5
Total	\$ 640.3	\$ (168.7)	\$ (2.3)	\$ 469.3

(In millions)	As of December 31, 2018			
	Acquisition Cost	Accumulated Amortization	Currency Translation	Net
Customer relationships	\$ 277.8	\$ (74.8)	\$ (0.7)	\$ 202.3
Patents, technology and other	185.1	(64.4)	(0.9)	119.8
Indefinite-lived trade names	100.3	—	—	100.3
Total	\$ 563.2	\$ (139.2)	\$ (1.6)	\$ 422.4

Amortization of finite-lived intangible assets included in continuing operations for the years ended December 31, 2019, 2018 and 2017 was \$29.5 million, \$25.5 million and \$21.2 million, respectively.

We expect finite-lived intangibles amortization expense for the next five years as follows:

(In millions)	2020	2021	2022	2023	2024
Expected Amortization Expense	\$ 28.9	\$ 28.7	\$ 26.7	\$ 24.3	\$ 24.2

Note 5 — FINANCING ARRANGEMENTS

For each of the periods presented, total debt consisted of the following:

As of December 31, 2019 (in millions)	Principal Amount	Unamortized discount and debt issuance cost	Net Debt	Weighted average interest rate
Senior secured revolving credit facility due 2022	\$ —	\$ —	\$ —	3.90 %
Senior secured term loan due 2026	624.5	9.8	614.7	4.01 %
5.25% senior notes due 2023	600.0	3.7	596.3	5.25 %
Other Debt	18.3	—	18.3	
Total Debt	\$ 1,242.8	\$ 13.5	\$ 1,229.3	
Less short-term and current portion of long-term debt	18.4	—	18.4	
Total long-term debt, net of current portion	\$ 1,224.4	\$ 13.5	\$ 1,210.9	

As of December 31, 2018 (in millions)	Principal Amount	Unamortized discount and debt issuance cost	Net Debt	Weighted average interest rate
Senior secured revolving credit facility due 2022	\$ 120.1	\$ —	\$ 120.1	3.35 %
Senior secured term loan due 2026	631.0	11.2	619.8	3.80 %
5.25% senior notes due 2023	600.0	5.0	595.0	5.25 %
Other Debt	20.7	—	20.7	
Total Debt	\$ 1,371.8	\$ 16.2	\$ 1,355.6	
Less short-term and current portion of long-term debt	19.4	—	19.4	
Total long-term debt, net of current portion	\$ 1,352.4	\$ 16.2	\$ 1,336.2	

On April 11, 2018, the Company entered into a fifth amendment to its senior secured term loan. Under the terms of the amended senior secured term loan, the margin was reduced by 25 basis points to 175 basis points. At the Company's discretion, interest is based upon (i) a margin rate of 175 basis points plus the 1-, 2-, 3-, or 6-month LIBOR, subject to a floor of 75 basis points, or (ii) a margin rate of 75 basis points plus a Prime Rate, subject to a floor of 175 basis points. On November 9, 2018, the Company entered into a sixth amendment to its senior secured term loan, which extended the maturity to 2026. Repayments in the amount of one percent of the aggregate principal amount as of August 3, 2016 are payable annually, while the remaining balance matures on January 30, 2026. The total principal repayments for the year ended December 31, 2019 were \$6.5 million.

The Company maintains a senior secured revolving credit facility, which matures on February 24, 2022 and provides a maximum borrowing facility size of \$450.0 million, subject to a borrowing base with advances against certain U.S. and Canadian accounts receivable, inventory and other assets as specified in the agreement. On June 28, 2019, the Company amended and restated its senior secured revolving credit facility to, among other things, add a European line of credit, up to the euro equivalent of \$50.0 million, subject to a borrowing base with advances against certain European accounts receivable. Advances under the U.S. portion of our revolving credit facility bear interest, at the Company's option, at a Base Rate or a LIBOR Rate plus an applicable margin. The Base Rate is a fluctuating rate equal to the greater of (i) the Federal Funds Rate plus one-half percent, (ii) the prevailing LIBOR Rate plus one percent, and (iii) the prevailing Prime Rate. The applicable margins vary based on the Company's daily average excess availability during the previous quarter. As of December 31, 2019, we had no borrowings under our revolving credit facility, which had remaining availability of \$279.4 million. As of December 31, 2018, we had borrowings of \$120.1 million under our revolving credit facility, which had remaining availability of \$279.4 million.

The agreements governing our revolving credit facility and our senior secured term loan, and the indentures and credit agreements governing other debt, contain a number of customary financial and restrictive covenants that, among other things, limit our ability to: sell or otherwise transfer assets, including in a spin-off, incur additional debt or liens, consolidate or merge with any entity or transfer or sell all or substantially all of our assets, pay dividends or make certain other restricted payments, make investments, enter into transactions with affiliates, create dividend or other payment restrictions with respect to subsidiaries, make capital investments and alter the business we conduct. As of December 31, 2019, we were in compliance with all covenants.

As of both December 31, 2019 and 2018, the Company maintained a credit line of \$12.0 million with Saudi Hollandi Bank. The credit line has an interest rate equal to the Saudi Arabia Interbank Offered Rate plus a fixed rate of

0.85% and is subject to annual renewal. Borrowings under the credit line were primarily used to fund capital expenditures related to the manufacturing facility in Jeddah, Saudi Arabia. As of December 31, 2019, letters of credit under the credit line were immaterial and borrowings were \$10.3 million with a weighted average annual interest rate of 3.14%. As of December 31, 2018, letters of credit under the credit line were immaterial and borrowings were \$10.7 million with a weighted average annual interest rate of 3.35%. As of December 31, 2019 and 2018, there was remaining availability on the credit line of \$1.7 million and \$1.3 million, respectively.

The estimated fair value of PolyOne's debt instruments at December 31, 2019 and 2018 was \$1,271.8 million and \$1,316.8 million, respectively, compared to carrying values of \$1,229.3 million and \$1,355.6 million as of December 31, 2019 and 2018, respectively. The fair value of PolyOne's debt instruments was estimated using prevailing market interest rates on debt with similar creditworthiness, terms and maturities and represent Level 2 measurements within the fair value hierarchy.

Aggregate maturities of the principal amount of debt for the next five years and thereafter are as follows:

(In millions)	
2020	\$ 18.4
2021	7.5
2022	7.2
2023	607.0
2024	7.0
Thereafter	595.7
Aggregate maturities	<u>\$ 1,242.8</u>

Included in *Interest expense, net* for the years ended December 31, 2019, 2018 and 2017 was interest income of \$11.0 million, \$3.1 million, and \$0.7 million, respectively. Total interest paid on debt was \$67.0 million in 2019, \$61.0 million in 2018 and \$59.4 million in 2017.

Note 6 — LEASING ARRANGEMENTS

We lease certain manufacturing facilities, warehouse space, machinery and equipment, vehicles and information technology equipment under operating leases. The majority of our leases are operating leases. Finance leases are immaterial to our condensed consolidated financial statements. Operating lease assets and obligations are reflected within *Operating lease assets, net*, *Current operating lease obligations*, and *Non-current operating lease obligations*, respectively, on the Condensed Consolidated Balance Sheets.

Lease expense for these leases is recognized on a straight-line basis over the lease term, with variable lease payments recognized in the period those payments are incurred. The components of lease cost from continued operations recognized within our Condensed Consolidated Statements of Income were as follows:

(in millions)	Condensed Consolidated Statements of Income Location	Year-Ended December 31, 2019
Lease Cost		
Operating lease cost	Cost of Sales	\$ 10.9
Operating lease cost	Selling and administrative expense	11.3
Other ⁽¹⁾	Selling and administrative expense	1.8
Total Operating lease cost		<u>\$ 24.0</u>

(1) Other lease costs include short-term lease costs and variable lease costs

We often have options to renew lease terms for buildings and other assets. The exercise of lease renewal options are generally at our sole discretion. In addition, certain lease arrangements may be terminated prior to their original expiration date at our discretion. We evaluate renewal and termination options at the lease commencement date to determine if we are reasonably certain to exercise the option on the basis of economic factors. The weighted average remaining lease term for our operating leases as of December 31, 2019 was 4.0 years.

The discount rate implicit within our leases is generally not determinable and, therefore, the Company determines the discount rate based on its incremental borrowing rate. The incremental borrowing rate for our leases is determined based on lease term and currency in which lease payments are made, adjusted for impacts of collateral.

The weighted average discount rate used to measure our operating lease liabilities as of December 31, 2019 was 7.9%.

Future minimum lease payments under non-cancelable operating leases with initial lease terms longer than one year as of December 31, 2019 are as follows:

Maturity Analysis of Lease Liabilities:

(in millions)	As of December 31, 2019	
	Operating Leases	
2020	\$	24.0
2021		16.0
2022		11.3
2023		8.1
2024		4.5
Thereafter		7.8
Total	\$	71.7
Less amount of lease payment representing interest		(7.9)
Total present value of lease payments	\$	63.8

(in millions)	As of December 31, 2018	
	Operating Leases	
2019	\$	24.5
2020		20.4
2021		12.4
2022		8.5
2023		5.8
Thereafter		9.0
Total	\$	80.6

Note 7 — INVENTORIES, NET

Components of *Inventories, net* are as follows:

(In millions)	December 31, 2019	December 31, 2018
Finished products	\$ 157.6	\$ 174.6
Work in process	8.0	6.4
Raw materials and supplies	95.3	103.6
Inventories, net	\$ 260.9	\$ 284.6

Note 8 — PROPERTY, NET

Components of *Property, net* are as follows:

(In millions)	December 31, 2019	December 31, 2018
Land and land improvements	\$ 32.8	\$ 32.6
Buildings	231.8	226.4
Machinery and equipment	748.9	705.0
Property, gross	1,013.5	964.0
Less accumulated depreciation	(606.1)	(579.5)
Property, net	\$ 407.4	\$ 384.5

Depreciation expense from continuing operations was \$48.6 million in 2019, \$47.1 million in 2018 and \$46.1 million in 2017.

Note 9 — OTHER BALANCE SHEET LIABILITIES

Other liabilities at December 31, 2019 and 2018 consist of the following:

(in millions)	Accrued expenses and other current liabilities		Other non-current liabilities	
	December 31,		December 31,	
	2019	2018	2019	2018
Employment costs	\$ 68.6	\$ 47.5	\$ 20.5	\$ 18.0
Earnouts payable	87.9	18.6	—	—
Environmental liabilities	11.2	9.9	100.8	102.0
Accrued taxes	165.4	15.3	—	—
Pension and other post-employment benefits	4.8	4.9	—	—
Accrued interest	10.0	10.8	—	—
Dividends payable	15.6	15.6	—	—
Unrecognized tax benefits	0.7	1.7	11.9	16.1
Other	11.2	4.4	11.1	26.1
Total	<u>\$ 375.4</u>	<u>\$ 128.7</u>	<u>\$ 144.3</u>	<u>\$ 162.2</u>

Note 10 — EMPLOYEE BENEFIT PLANS

We recognize actuarial gains and losses in our operating results in the year in which the gains or losses occur. These gains and losses are generally only measured annually as of December 31 and, accordingly, are recorded during the fourth quarter of each year. We recognized a benefit of \$9.6 million in the fourth quarter of 2019 and charges of \$15.6 million and \$3.3 million in the fourth quarter of 2018 and 2017, respectively, related to the actuarial losses during the year.

All U.S. qualified defined benefit pension plans are frozen, no longer accrue benefits and are closed to new participants. We have foreign pension plans that accrue benefits. The plans generally provide benefit payments using a formula that is based upon employee compensation and length of service.

The following tables present the change in benefit obligation, change in plan assets and components of funded status for defined benefit pension and post-retirement health care benefit plans.

(in millions)	Pension Benefits		Health Care Benefits	
	2019	2018	2019	2018
Change in benefit obligation:				
Projected benefit obligation - beginning of year	\$ 462.7	\$ 507.7	\$ 7.4	\$ 8.8
Service cost	0.5	0.6	—	—
Interest cost	18.2	17.6	0.2	0.3
Actuarial loss (gain)	34.0	(23.9)	0.1	(0.6)
Benefits paid	(36.9)	(37.7)	(0.8)	(0.8)
Other	(0.5)	(1.6)	0.2	(0.3)
Projected benefit obligation - end of year	<u>\$ 478.0</u>	<u>\$ 462.7</u>	<u>\$ 7.1</u>	<u>\$ 7.4</u>
Projected salary increases	(1.9)	(1.6)	—	—
Accumulated benefit obligation	<u>\$ 476.1</u>	<u>\$ 461.1</u>	<u>\$ 7.1</u>	<u>\$ 7.4</u>
Change in plan assets:				
Plan assets - beginning of year	\$ 434.4	\$ 484.7	\$ —	\$ —
Actual return (loss) on plan assets	67.4	(16.4)	—	—
Company contributions	4.4	4.5	0.8	0.8
Benefits paid	(36.9)	(37.7)	(0.8)	(0.8)
Other	(0.2)	(0.7)	—	—
Plan assets - end of year	<u>\$ 469.1</u>	<u>\$ 434.4</u>	<u>\$ —</u>	<u>\$ —</u>
Unfunded status at end of year	<u>\$ (8.9)</u>	<u>\$ (28.3)</u>	<u>\$ (7.1)</u>	<u>\$ (7.4)</u>

Amounts included in the accompanying Consolidated Balance Sheets as of December 31 are as follows:

(in millions)	Pension Benefits		Health Care Benefits	
	2019	2018	2019	2018
Non-current assets	\$ 45.4	\$ 23.5	\$ —	\$ —
Accrued expenses and other liabilities	4.0	4.1	0.8	0.8
Other non-current liabilities	50.3	47.7	6.3	6.6

As of December 31, 2019 and 2018, we had plans with total projected and accumulated benefit obligations in excess of the related plan assets as follows:

(in millions)	Pension Benefits		Health Care Benefits	
	2019	2018	2019	2018
Projected benefit obligation	\$ 58.9	\$ 56.4	\$ 7.1	\$ 7.4
Accumulated benefit obligation	57.0	54.8	7.1	7.4
Fair value of plan assets	4.6	4.6	—	—

Weighted-average assumptions used to determine benefit obligations at December 31:

	Pension Benefits		Health Care Benefits	
	2019	2018	2019	2018
Discount rate	3.19 %	4.11 %	3.18 %	3.98 %
Assumed health care cost trend rates at December 31:				
Health care cost trend rate assumed for next year	N/A	N/A	5.88 %	6.09 %
Rate to which the cost trend rate is assumed to decline (the ultimate trend rate)	N/A	N/A	4.50 %	4.50 %
Year that the rate reaches the ultimate trend rate	N/A	N/A	2027	2027

The following table summarizes the components of net periodic benefit cost or gain that was recognized during each of the years in the three-year period ended December 31, 2019.

(in millions)	Pension Benefits			Health Care Benefits		
	2019	2018	2017	2019	2018	2017
Components of net periodic benefit costs (gains):						
Service Cost	\$ 0.5	\$ 0.6	\$ 0.6	\$ —	\$ —	\$ —
Interest Cost	18.2	17.6	19.3	0.2	0.3	0.4
Expected return on plan assets	(23.7)	(23.8)	(27.7)	—	—	—
Mark-to-market actuarial net losses (gains)	(9.7)	16.2	5.0	0.1	(0.6)	(1.7)
Other	—	(0.1)	—	—	—	—
Net periodic cost (benefit)	<u>\$ (14.7)</u>	<u>\$ 10.5</u>	<u>\$ (2.8)</u>	<u>\$ 0.3</u>	<u>\$ (0.3)</u>	<u>\$ (1.3)</u>

In 2019, we recognized a \$9.6 million mark-to-market gain that was primarily the result of actual asset returns that were higher than our assumed returns and mortality assumptions. Partially offsetting the higher asset returns was the decrease in our year end discount rate from 4.11% to 3.19%.

In 2018, we recognized a \$15.6 million mark-to-market charge that was primarily a result of actual asset returns that were lower than our assumed returns. Partially offsetting the lower asset returns was the increase in our year end discount rates from 3.62% to 4.11%.

In 2017, we recognized a \$3.3 million mark-to-market charge that was primarily a result of the decrease in our year end discount rates, from 3.97% to 3.62%, and updated mortality assumptions, partially offset by a higher than expected return on assets.

Weighted-average assumptions used to determine net periodic benefit cost for the years ended December 31:

	Pension Benefits			Health Care Benefits		
	2019	2018	2017	2019	2018	2017
Discount rate*	4.11 %	3.62 %	3.97 %	3.98 %	3.60 %	4.04 %
Expected long-term return on plan assets*	5.68 %	5.09 %	6.08 %	—	—	—
Assumed health care cost trend rates at December 31:						
Health care cost trend rate assumed for next year	N/A	N/A	N/A	6.09 %	6.29 %	6.52 %
Rate to which the cost trend rate is assumed to decline (the ultimate trend rate)	N/A	N/A	N/A	4.50 %	4.50 %	4.50 %
Year that the rate reaches the ultimate trend rate	N/A	N/A	N/A	2027	2027	2027

*The mark-to-market component of net periodic costs is determined based on discount rates as of year-end and actual asset returns during the year.

The expected long-term rate of return on pension assets was determined after considering the historical and forward looking long-term asset returns by asset category and the expected investment portfolio mix.

Our pension investment strategy is to diversify the portfolio among asset categories to enhance the portfolio's risk-adjusted return as well as insulate it from exposure to changes in interest rates. Our asset mix considers the duration of plan liabilities, historical and expected returns of the investments, and the funded status of the plan. The pension asset allocation is reviewed and actively managed based on the funded status of the plan. Based on the current funded status of the plan, our pension asset investment allocation guidelines are to invest 83% in fixed income securities and 17% in equity securities. The plan keeps a minimal amount of cash available to fund benefit payments. These investments may include funds of multiple asset investment strategies and funds of hedge funds.

The fair values of pension plan assets at December 31, 2019 and 2018, by asset category, are as follows:

Fair Value of Plan Assets at December 31, 2019				
(In millions)	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total Investments (at Fair Value)
Asset category				
Cash	\$ 3.7	\$ —	\$ —	\$ 3.7
Other	—	—	4.6	4.6
Total	<u>\$ 3.7</u>	<u>\$ —</u>	<u>\$ 4.6</u>	<u>8.3</u>
Investments measured at NAV:				
Common collective funds:				
United States equity				31.7
International equity				31.9
Global equity				15.7
Fixed income				381.5
Total common collective funds				<u>460.8</u>
Total investments at fair value				<u>\$ 469.1</u>

Fair Value of Plan Assets at December 31, 2018

(In millions)	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total Investments (at Fair Value)
Asset category				
Cash	\$ 3.7	\$ —	\$ —	\$ 3.7
Other	—	—	4.6	4.6
Total	<u>\$ 3.7</u>	<u>\$ —</u>	<u>\$ 4.6</u>	<u>8.3</u>
Investments at NAV				
Common collective funds				
United States equity				14.9
International equity				14.9
Global equity				8.5
Fixed income				387.8
Total common collective funds				<u>\$ 426.1</u>
Total investments at fair value				<u>\$ 434.4</u>

Pension Plan Assets

Other assets are primarily insurance contracts for international plans. The U.S. equity common collective funds are predominately invested in equity securities actively traded in public markets. The international and global equity common collective funds have broadly diversified investments across economic sectors and focus on low volatility, long-term investments. The fixed income common collective funds consist primarily of publicly traded United States fixed interest obligations (principally investment grade bonds and government securities).

Level 1 assets are valued based on quoted market prices. Level 2 investments are valued based on quoted market prices and/or other market data for the same or comparable instruments and transactions of the underlying fixed income investments. The insurance contracts included in the other asset category are valued at the transacted price. Common collective funds are valued at the net asset value of units held by the fund at year end. The unit value is determined by the total value of fund assets divided by the total number of units of the fund owned.

The estimated future benefit payments for our pension and health care plans are as follows:

(In millions)	Pension Benefits	Health Care benefits
2020	\$ 38.0	\$ 0.8
2021	38.4	0.8
2022	36.3	0.7
2023	35.9	0.7
2024	34.6	0.6
2025 through 2029	156.2	2.4

We currently estimate that 2020 employer contributions will be \$4.2 million to all qualified and non-qualified pension plans and \$0.8 million to all healthcare benefit plans.

PolyOne sponsors various voluntary retirement savings plans (RSP). Under the provisions of the plans, eligible employees receive defined Company contributions and are eligible for Company matching contributions based on their eligible earnings contributed to the plan. In addition, we may make discretionary contributions to the plans for eligible employees based on a specific percentage of each employee's compensation.

Following are our contributions to the RSP:

(In millions)	2019	2018	2017
Retirement savings match	\$ 10.4	\$ 10.1	\$ 9.1
Retirement savings contribution	—	—	1.6
Total contribution	<u>\$ 10.4</u>	<u>\$ 10.1</u>	<u>\$ 10.7</u>

Note 11 — COMMITMENTS AND CONTINGENCIES

Environmental — We have been notified by federal and state environmental agencies and by private parties that we may be a potentially responsible party (PRP) in connection with the environmental investigation and remediation of certain sites. While government agencies frequently assert that PRPs are jointly and severally liable at these sites, in our experience, the interim and final allocations of liability costs are generally made based on the relative contribution of waste. We may also initiate corrective and preventive environmental projects of our own to ensure safe and lawful activities at our operations. We believe that compliance with current governmental regulations at all levels will not have a material adverse effect on our financial position, results of operations or cash flows.

In September 2007, the United States District Court for the Western District of Kentucky in the case of *Westlake Vinyls, Inc. v. Goodrich Corporation, et al.*, held that PolyOne must pay the remediation costs at the former Goodrich Corporation Calvert City facility (now largely owned and operated by Westlake Vinyls), together with certain defense costs of Goodrich Corporation. The rulings also provided that PolyOne can seek indemnification for contamination attributable to Westlake Vinyls.

Following the rulings, the parties to the litigation agreed to settle all claims regarding past environmental costs incurred at the site. The settlement agreement provides a mechanism to pursue allocation of future remediation costs at the Calvert City site to Westlake Vinyls. We will adjust our accrual, in the future, consistent with any such future allocation of costs. Additionally, we continue to pursue available insurance coverage related to this matter and recognize gains as we receive reimbursement.

The environmental obligation at the site arose as a result of an agreement between The B.F. Goodrich Company (n/k/a Goodrich Corporation) and our predecessor, The Geon Company, at the time of the initial public offering in 1993. Under the agreement, The Geon Company agreed to indemnify Goodrich Corporation for certain environmental costs at the site. Neither PolyOne nor The Geon Company ever operated the facility.

Since 2009, PolyOne, along with respondents Westlake Vinyls and Goodrich Corporation, have worked with the United States Environmental Protection Agency (USEPA) on the investigation of contamination at the site as well as evaluation of potential remedies to address the contamination. The USEPA issued its Record of Decision (ROD) in September 2018, selecting a remedy consistent with our accrual assumptions. In April 2019, the respondents signed an Administrative Settlement Agreement and Order on Consent with the USEPA to conduct the remedial design. In October 2019, the USEPA sent a Special Notice Letter to PolyOne, Westlake Vinyls and Goodrich Corporation inviting negotiation of a Consent Decree to perform the remedial actions at the site. On December 23, 2019, the three companies submitted to the USEPA a Good Faith Offer Letter agreeing to negotiate a Consent Decree, along with a draft proposed Consent Decree and draft remedial action Work Plan. Our current reserve of \$100.8 million is consistent with the USEPA's estimates contained in the ROD.

On March 13, 2013, PolyOne acquired Spartech Corporation (Spartech). One of Spartech's subsidiaries, Franklin-Burlington Plastics, Inc. (Franklin-Burlington), operated a plastic resin compounding facility in Kearny, New Jersey, located adjacent to the Passaic River. The USEPA requested that companies located in the area of the lower Passaic River, including Franklin-Burlington, cooperate in an investigation of contamination of approximately 17 miles of the lower Passaic River Study Area (the LPRSA). In response, Franklin-Burlington and approximately 70 other companies (collectively, the Cooperating Parties) agreed, pursuant to an Administrative Order on Consent (AOC) with the USEPA, to assume responsibility for development of a Remedial Investigation and Feasibility Study of the LPRSA. Franklin-Burlington has not admitted to any liability or agreed to bear any other costs for remediation or natural resource damage.

In 2015, the Cooperating Parties submitted to the USEPA a remedial investigation report and feasibility study for the LPRSA, and are currently engaged in technical discussions with the USEPA to revise and finalize those documents. Neither of those documents contemplates who is responsible for remediation or how such costs might be allocated to PRPs. In March 2016, the USEPA issued a ROD selecting a remedy for an eight-mile portion of the LPRSA at an estimated and discounted cost of \$1.4 billion. On March 31, 2016, the USEPA sent a Notice of Potential Liability to over 100 companies, including Franklin-Burlington, and several municipalities for this eight-mile portion. In September 2016, the USEPA reached an agreement with Occidental Chemical Corporation (OCC), which orders OCC to perform the remedial design for the lower eight mile portion of the Passaic River. In September 2017, the USEPA sent a letter to over 80 companies, including Franklin-Burlington, indicating that the USEPA would engage the recipients in an allocation process for the lower eight miles of the LPRSA, and has engaged a third-party allocator as part of that process. Along with other parties, Franklin-Burlington is participating in the development of this allocation process with the allocator retained by the USEPA, and this process is expected to continue into at least 2020. On June 30, 2018, OCC, independent of the USEPA, filed suit against over 100 named entities,

including Franklin-Burlington, seeking contribution for past and future costs associated with the remediation of the lower eight-mile portion of the LPRSA.

Based on the currently available information, we have not identified evidence that Franklin-Burlington contributed any of the primary contaminants of concern to the lower Passaic River. A timeline as to when an allocation of the remedial costs may be determined is not yet known and any allocation to Franklin-Burlington has not been determined. As a result of these uncertainties, we are unable to estimate a liability related to this matter and, as of December 31, 2019, we have not accrued for costs of remediation related to the lower Passaic River.

The Consolidated Balance Sheets include accruals totaling \$112.0 million and \$111.9 million as of December 31, 2019 and 2018, respectively, based on our estimates of probable future environmental expenditures relating to previously contaminated sites. These undiscounted amounts are included in *Accrued expenses and other current liabilities* and *Other non-current liabilities* on the accompanying Consolidated Balance Sheets. The accruals represent our best estimate of probable future costs that we can reasonably estimate, based upon currently available information and technology and our view of the most likely remedy. Depending upon the results of future testing, completion and results of remedial investigation and feasibility studies, the ultimate remediation alternatives undertaken, changes in regulations, technology development, new information, newly discovered conditions and other factors, it is reasonably possible that we could incur additional costs in excess of the amount accrued at December 31, 2019. However, such additional costs, if any, cannot be currently estimated.

The following table details the changes in the environmental accrued liabilities:

(in millions)	2019	2018	2017
Balance at beginning of the year	\$ 111.9	\$ 114.8	\$ 114.9
Environmental expenses	10.2	23.1	14.9
Net cash payments	(10.3)	(26.0)	(15.1)
Currency translation and other	0.2	—	0.1
Balance at the end of year	\$ 112.0	\$ 111.9	\$ 114.8

The environmental expenses noted in the table above are included in *Cost of sales* in the accompanying Consolidated Statements of Income (Loss), as are insurance recoveries received for previously incurred environmental costs. We received insurance recoveries of \$4.5 million, \$4.3 million, and \$9.1 million in 2019, 2018 and 2017, respectively. Such insurance recoveries are recognized as a gain when received.

Other Litigation — We are involved in various pending or threatened claims, lawsuits and administrative proceedings, all arising from the ordinary course of business concerning commercial, product liability, employment and environmental matters that seek remedies or damages. We believe that the probability is remote that losses in excess of the amounts we have accrued would be materially adverse to our financial position, results of operations or cash flows.

Note 12 — INCOME TAXES

Income from continuing operations, before income taxes is summarized below based on the geographic location of the operation to which such earnings are attributable.

Income from continuing operations, before income taxes consists of the following:

(In millions)	2019	2018	2017
Domestic	\$ 41.2	\$ 4.1	\$ 18.0
Foreign	68.2	97.7	93.9
Income from continuing operations, before income taxes	\$ 109.4	\$ 101.8	\$ 111.9

A summary of income tax expense from continuing operations is as follows:

(In millions)	2019	2018	2017
Current income tax expense (benefit):			
Domestic - GILTI, FDII, and U.S. tax reform transition tax	\$ 0.1	\$ 5.0	\$ 19.9
Domestic - other	24.7	(5.4)	(41.4)
Foreign	21.9	22.0	23.9
Total current income tax expense	\$ 46.7	\$ 21.6	\$ 2.4
Deferred income tax (benefit) expense:			
Domestic - U.S. tax reform, tax effect on net deferred tax liabilities	\$ —	\$ (6.8)	\$ (20.1)
Domestic - other	(12.5)	17.9	26.4
Foreign	(0.5)	(18.3)	(7.9)
Total deferred income tax (benefit) expense	\$ (13.0)	\$ (7.2)	\$ (1.6)
Total income tax expense	\$ 33.7	\$ 14.4	\$ 0.8

The Tax Cuts and Jobs Act (TCJA) was enacted on December 22, 2017. Among other things, effective in 2018, the TCJA reduced the US federal corporate tax rate from 35% to 21%, exempts from U.S. federal income taxation dividends from certain foreign corporations to their U.S. shareholders, eliminates or reduces the effect of various federal tax deductions and creates new taxes on certain outbound payments and future foreign earnings generated after 2017. The TCJA required U.S. companies to pay a one-time transition tax on earnings of foreign corporate subsidiaries that were at least ten-percent owned by such U.S. companies and that were previously deferred from U.S. taxation.

As of December 31, 2018, we completed our accounting for the tax effects of the enactment of the TCJA. In compliance with the one-year measurement period of the SEC's Staff Accounting Bulletin 118 (SAB 118) (issued December 22, 2017), we have finalized the effects of the TCJA on our existing deferred income tax balances, the one-time transition tax and, as discussed below, the impact the TCJA had on our indefinite reinvestment assertion pursuant to Accounting Principles Board 23 (APB 23). These finalized effects are included as components of income tax expense from continuing operations and are noted in the following tabular reconciliation.

As of December 31, 2018, we completed our analysis with respect to the impact of the TCJA on our continuing assertion that our foreign earnings are indefinitely reinvested pursuant to APB 23 of Accounting Standards Codification 740-30 (ASC 740-30). APB 23 provides guidance that US companies do not need to recognize tax effects on foreign earnings that are indefinitely reinvested. Our assertion has changed with respect to certain earnings of foreign affiliates in certain countries, which resulted in a recognition of tax liabilities. As of December 31, 2018, and noted in the following tabular reconciliation, Repatriation of certain foreign earnings from prior and current periods line totaled 9.4%. This consisted of an impact of 7.5% to our provision from a decision to repatriate prior year earnings after completing our analysis with respect to the TCJA and 1.9% pertaining to our decision to repatriate certain current year earnings. For the year ended December 31, 2019, the rate impact was 1.6% pertaining to our decision to repatriate certain current year earnings. The rest of our foreign earnings are indefinitely reinvested pursuant to APB 23 and our policy. No deferred income taxes were recorded on outside basis differences as it was not practicable to determine the provision impact, if any, due to the complexities associated with this calculation.

We elected to recognize the resulting tax on GILTI and FDII as a period expense in the period the tax is incurred.

A reconciliation of the applicable U.S. federal statutory tax rate to the consolidated effective income tax rate from continuing operations along with a description of significant or unusual reconciling items is included below.

Twelve Months Ended December 31,

2019 2018 2017

	2019	2018	2017
Federal statutory income tax rate	21.0 %	21.0 %	35.0 %
Foreign tax rate differential:			
Asia	0.7	0.4	(2.2)
Europe	(10.3)	(11.6)	(16.2)
Canada and Mexico	0.7	(0.9)	(1.6)
Total foreign tax rate differential	(8.9)	(12.1)	(20.0)
Tax on GILTI	1.9	3.3	—
Repatriation on certain foreign earnings from prior and current periods	1.6	9.4	0.8
Net impact of non-deductible acquisition earnouts	2.8	0.2	—
Tax on one-time gain from sale of other assets	6.0	—	—
U.S. tax reform, transition tax	0.2	2.1	17.8
U.S. tax reform, tax effect on net deferred tax liabilities	—	(5.4)	(18.0)
Tax impact of FDII deduction	(2.0)	(0.4)	—
Research and development credit	(2.8)	(0.8)	(1.4)
Domestic production activities deduction	—	(1.1)	(2.4)
Amended prior period tax returns and corresponding favorable audit adjustments	(0.7)	—	(6.8)
Tax benefits on certain foreign investments	—	—	(12.8)
State and local tax, net	4.2	2.3	0.2
Foreign permanent items	7.5	(1.6)	2.4
Net impact of uncertain tax positions	(2.4)	(0.6)	4.8
Changes in valuation allowances	1.7	(3.4)	1.4
Other	0.7	1.2	(0.3)
Effective income tax rate	<u>30.8 %</u>	<u>14.1 %</u>	<u>0.7 %</u>

The effective tax rates for all periods differed from the applicable U.S. federal statutory tax rate as a result of permanent items, state and local income taxes, differences in foreign tax rates and certain unusual items. Permanent items primarily consist of income or expense not taxable or deductible. Significant or unusual items impacting the effective income tax rate are described below.

2019 Significant items

The State and local tax, net line included the result from an unfavorable state tax audit decision combined with higher domestic earnings in 2019.

Foreign permanent items line included the tax effect of non-deductibility of interest expense related to the receipt of tax-exempt dividends, which caused an unfavorable tax effect of \$10.3 million (9.4%) partially offset by the tax impact of other net favorable permanent items of \$2.0 million (1.9%).

Net impact of uncertain tax positions line resulted from the expiration of statute of limitations and favorable tax settlements.

Changes in valuation allowances line in 2019 resulted from foreign operational losses.

2018 Significant items

Repatriation of certain foreign earnings from prior and current periods line had an unfavorable tax impact of \$10.3 million (9.4%). This consisted of an impact of 7.5% to our provision from a decision to repatriate prior year earnings after completing our analysis with respect to the TCJA and 1.9% pertaining to our decision to repatriate certain current year earnings.

State and local tax, net line was unfavorably impacted by a state tax audit decision.

Foreign permanent items line included a favorable tax treatment of a foreign intellectual property transaction.

The benefit reflected in the Changes in valuation allowances line resulted from the realizability of a deferred tax asset for one of our foreign entities.

2017 Significant Items

The Foreign tax rate differential line item primarily related to a European legal entity realignment.

Tax benefits on certain foreign investments was a result of distributions from foreign subsidiaries with net foreign tax credits.

Components of our deferred tax assets (liabilities) as of December 31, 2019 and 2018 were as follows:

(In millions)	2019	2018
Deferred tax assets:		
Pension and other post-retirement benefits	\$ 2.7	\$ 7.6
Employment costs	20.5	20.1
Environmental reserves	27.9	28.2
Net operating loss carryforwards	45.3	48.8
Operating leases	18.0	—
Other, net	42.4	39.8
Gross deferred tax assets	\$ 156.8	\$ 144.5
Valuation allowances	(16.2)	(15.2)
Total deferred tax assets, net of valuation allowances	\$ 140.6	\$ 129.3
Deferred tax liabilities:		
Property, plant and equipment	\$ (25.9)	\$ (33.9)
Goodwill and intangibles	(95.1)	(101.5)
Operating leases	(18.0)	—
Other, net	(14.2)	(14.2)
Total deferred tax liabilities	\$ (153.2)	\$ (149.6)
Net deferred tax (liabilities) assets	\$ (12.6)	\$ (20.3)
Consolidated Balance Sheets:		
Non-current deferred income tax assets	\$ 50.9	\$ 48.8
Non-current deferred income tax liabilities	\$ (63.5)	\$ (69.1)

As of December 31, 2019, we had gross state net operating loss carryforwards of \$32.5 million that expire between 2020 and 2038. Various foreign subsidiaries have gross net operating loss carryforwards totaling \$155.6 million that expire between 2020 and 2036 or that have indefinite carryforward periods. Total tax valuation allowances increased \$1.0 million from the prior year primarily due to additional losses from certain foreign entities. We have provided valuation allowances of \$14.3 million against certain foreign and state net operating loss carryforwards that are expected to expire prior to utilization.

We decided to repatriate certain current year foreign earnings which we expect to receive in 2020 for which the provision impact was 1.6% in the current year and 9.4% in 2018, included in the tabular rate reconciliation above. The balance of the related accrual is included in the above Other, net deferred tax liabilities line (\$6.7 million and \$8.2 million, respectively) above. As of December 31, 2019, no provision has been made for income taxes on the undistributed earnings of certain non-U.S. subsidiaries of approximately \$395 million as these amounts continue to be indefinitely reinvested as consistent with our policy.

We made worldwide income tax payments of \$45.7 million and received refunds of \$20.0 million in 2019. We made worldwide income tax payments of \$40.5 million and \$51.1 million in 2018 and 2017, respectively, and received refunds of \$29.9 million and \$6.7 million in 2018 and 2017, respectively.

The Company records provisions for uncertain tax positions in accordance with ASC Topic 740, *Income Taxes*. A reconciliation of unrecognized tax benefits is as follows:

(In millions)	Unrecognized Tax Benefits		
	2019	2018	2017
Balance as of January 1,	\$ 16.4	\$ 17.8	\$ 7.1
Increases as a result of positions taken during current year	1.1	1.3	9.2
Increases as a result of positions taken for prior years	0.4	1.1	1.8
Reductions for tax positions of prior years	(0.7)	(2.6)	(0.3)
Decreases as a result of lapse of statute of limitations	(5.0)	(0.2)	—
Decreases relating to settlements with taxing authorities	—	(0.5)	—
Other, net	(1.0)	(0.5)	—
Balance as of December 31,	<u>\$ 11.2</u>	<u>\$ 16.4</u>	<u>\$ 17.8</u>

We recognize interest and penalties related to uncertain tax positions in the provision for income taxes. As of December 31, 2019 and 2018, we had \$1.4 million and \$2.5 million accrued for interest and penalties, respectively.

Although the timing and outcome of tax settlements are uncertain, it is reasonably possible that during the next twelve months a reduction in unrecognized tax benefits may occur up to \$0.2 million based on the outcome of tax examinations and the expiration of statutes of limitations.

If all unrecognized tax benefits were recognized, the net impact on the provision for income tax expense would be a benefit of \$4.9 million.

The Company is currently being audited by federal, state and foreign taxing jurisdictions. We are no longer subject to U.S. federal income tax examinations for periods preceding 2016. With limited exceptions, we are no longer subject to state tax and foreign tax examinations for periods preceding 2015.

For the income tax impact associated with PP&S and DSS, refer to Note 3, *Discontinued Operations*.

Note 13 — SHARE-BASED COMPENSATION

Share-based compensation cost is based on the value of the portion of share-based payment awards that are ultimately expected to vest during the period. Share-based compensation cost recognized in the accompanying Consolidated Statements of Income (Loss) includes compensation cost for share-based payment awards based on the grant date fair value estimated in accordance with the provision of FASB ASC Topic 718, *Compensation — Stock Compensation*. Share-based compensation expense is based on awards expected to vest and therefore has been reduced for estimated forfeitures.

Equity and Performance Incentive Plans

The PolyOne Corporation 2017 Equity and Incentive Compensation Plan reserved 2.5 million common shares for the award of a variety of share-based compensation alternatives, including non-qualified stock options, incentive stock options, restricted stock, restricted stock units (RSUs), performance shares, performance units and stock appreciation rights (SARs). It is anticipated that all share-based grants and awards that are earned and exercised will be issued from PolyOne common shares that are held in treasury.

Share-based compensation is included in *Selling and administrative expense* in the accompanying Consolidated Statements of Income (Loss). A summary of compensation expense by type of award follows:

(In millions)	2019	2018	2017
Stock appreciation rights	\$ 4.8	\$ 4.2	\$ 4.0
Performance shares	0.3	0.4	0.5
Restricted stock units	6.4	5.6	5.1
Total share-based compensation	<u>\$ 11.5</u>	<u>\$ 10.2</u>	<u>\$ 9.6</u>

Stock Appreciation Rights

During the years ended December 31, 2019, 2018 and 2017, the total number of SARs granted was 0.6 million, 0.3 million and 0.5 million, respectively. Awards vest in one-third increments upon the later of the attainment of time-based vesting over a three-year service period and stock price targets. Awards granted in 2019, 2018 and 2017 are subject to an appreciation cap of 200% of the base price. SARs have contractual terms of ten years from the date of the grant.

The SARs were valued using a Monte Carlo simulation method as the vesting is dependent on the achievement of certain stock price targets. The SARs have time and market-based vesting conditions but vest no earlier than their three year graded vesting schedule. The expected term is an output from the Monte Carlo model and is derived from employee exercise assumptions that are based on PolyOne historical exercise experience. The expected volatility was determined based on the average weekly volatility for our common shares for the contractual life of the awards. The expected dividend assumption was determined based upon PolyOne's dividend yield at the time of grant. The risk-free rate of return was based on available yields on U.S. Treasury bills of the same duration as the contractual life of the awards. Forfeitures were estimated at 3% per year based on our historical experience.

The following is a summary of the weighted average assumptions related to the grants issued during 2019, 2018 and 2017:

	2019	2018	2017
Expected volatility	40.0%	41.0%	41.0%
Expected dividends	2.47%	1.67%	1.58%
Expected term (in years)	6.6	6.5	6.5
Risk-free rate	2.78%	3.06%	2.72%
Value of SARs granted	\$10.13	\$14.82	\$12.01

A summary of SAR activity for 2019 is presented below:

Stock Appreciation Rights (In millions, except per share data)	Shares	Weighted-Average	Weighted-Average	Aggregate
		Exercise Price	Remaining	Intrinsic
		per Share	Contractual	value
			Term	
Outstanding as of January 1, 2019	1.8	\$ 32.14	6.8	\$ 4.0
Granted	0.6	31.54		
Exercised	(0.1)	22.47		
Forfeited or expired	(0.1)	35.46		
Outstanding as of December 31, 2019	2.2	\$ 32.04	6.6	\$ 12.3
Vested and exercisable as of December 31, 2019	1.2	\$ 29.13	5.1	\$ 9.3

The total intrinsic value of SARs exercised during 2019, 2018 and 2017 was \$0.4 million, \$6.5 million and \$7.6 million, respectively. As of December 31, 2019, there was \$2.7 million of total unrecognized compensation cost related to SARs, which is expected to be recognized over the weighted average remaining vesting period of 34 months.

Restricted Stock Units

RSUs represent contingent rights to receive one common share at a future date provided certain vesting criteria are met.

During 2019, 2018 and 2017, the total number of RSUs granted was 0.2 million, 0.2 million and 0.3 million, respectively. These RSUs, which vest on the third anniversary of the grant date, were granted to executives and other key employees. Compensation expense is measured on the grant date using the quoted market price of our common shares and is recognized on a straight-line basis over the requisite service period.

As of December 31, 2019, 0.6 million RSUs remain unvested with a weighted-average grant date fair value of \$35.56. Unrecognized compensation cost for RSUs at December 31, 2019 was \$6.2 million, which is expected to be recognized over the weighted average remaining vesting period of 21 months.

Note 14 — SEGMENT INFORMATION

Operating income is the primary measure that is reported to our chief operating decision maker (CODM) for purposes of allocating resources to the segments and assessing their performance. Operating income at the segment level does not include: corporate general and administrative expenses that are not allocated to segments; intersegment sales and profit eliminations; charges related to specific strategic initiatives such as the consolidation of operations; restructuring activities, including employee separation costs resulting from personnel reduction programs, plant closure and phase-in costs; executive separation agreements; share-based compensation costs; asset impairments; environmental remediation costs, along with related gains from insurance recoveries, and other liabilities for facilities no longer owned or closed in prior years; gains and losses on the divestiture of joint ventures and equity investments; actuarial gains and losses associated with our pension and other post-retirement benefit plans; and certain other items that are not included in the measure of segment profit or loss that is reported to and reviewed by our CODM. These costs are included in *Corporate and eliminations*.

Segment assets are primarily customer receivables, inventories, net property, plant and equipment, intangible assets and goodwill. Intersegment sales are generally accounted for at prices that approximate those for similar transactions with unaffiliated customers. *Corporate and eliminations* assets and liabilities primarily include cash, debt, pension and other employee benefits, environmental liabilities, retained assets and liabilities of discontinued operations, and other unallocated corporate assets and liabilities. The accounting policies of each segment are consistent with those described in Note 1, *Description of Business and Summary of Significant Accounting Policies*.

PolyOne has three reportable segments. Previously, PolyOne had five reportable segments. However, as a result of the divestitures of DSS and PP&S, we have removed both as separate operating segments and their results are presented as discontinued operations. Historical information has been retrospectively adjusted to reflect these changes.

The following is a description of each of our three reportable segments.

Color, Additives and Inks

Color, Additives and Inks is a leading provider of specialized custom color and additive concentrates in solid and liquid form for thermoplastics, dispersions for thermosets, as well as specialty inks, plastisols, and vinyl slush molding solutions. Color and additive solutions include an innovative array of colors, special effects and performance-enhancing and sustainable solutions. When combined with polymer resins, our solutions help customers achieve differentiated specialized colors and effects targeted at the demands of today's highly design-oriented consumer and industrial end markets. Our additive concentrates encompass a wide variety of performance and process enhancing characteristics and are commonly categorized by the function that they perform, including UV light stabilization and blocking, antimicrobial, anti-static, blowing or foaming, antioxidant, lubricant, oxygen and visible light blocking and productivity enhancement. Of growing importance is our portfolio of additives that enable our customers to achieve their sustainability goals, including improved recyclability, reduced energy use, light weighting, and renewable energy applications. Our colorant and additives concentrates are used in a broad range of polymers, including those used in medical and pharmaceutical devices, food packaging, personal care and cosmetics, transportation, building products, wire and cable markets. We also provide custom-formulated liquid systems that meet a variety of customer needs and chemistries, including polyester, vinyl, natural rubber and latex, polyurethane and silicone. Our offerings also include proprietary inks and latexes for diversified markets such as recreational and athletic apparel, construction and filtration, outdoor furniture and healthcare. Our liquid polymer coatings and additives are largely based on vinyl and are used in a variety of markets, including building and construction, consumer, healthcare, industrial, packaging, textiles, appliances, transportation, and wire and cable. Color, Additives and Inks has manufacturing, sales and service facilities located throughout North America, South America, Europe and Asia.

Specialty Engineered Materials

Specialty Engineered Materials is a leading provider of specialty and sustainable polymer formulations, services and solutions for designers, assemblers and processors of thermoplastic materials across a wide variety of markets and end-use applications. Our product portfolio, which we believe to be one of the most diverse in our industry, includes specialty formulated high-performance polymer materials that are manufactured using thermoplastic resins and elastomers, which are then combined with advanced polymer additives, reinforcement, filler, colorant and/or biomaterial technologies. We also have what we believe is the broadest composite platform of solutions, which include a full range of products from long glass and carbon fiber technology to thermoset and thermoplastic composites. These solutions meet a wide variety of unique customer requirements for sustainability, in particular light weighting. Our technical and market expertise enables us to expand the performance range and structural properties of traditional engineering-grade thermoplastic resins to meet evolving customer needs. Specialty Engineered Materials has manufacturing, sales and service facilities located throughout North America, Europe, and Asia. Our product development and application reach is further enhanced by the capabilities of our Innovation Centers in the United States, Germany and China, which produce and evaluate prototype and sample parts to help assess end-use performance and guide product development. Our manufacturing capabilities are targeted at meeting our customers' demand for speed, flexibility and critical quality.

Distribution

The Distribution business distributes more than 4,000 grades of engineering and commodity grade resins, including PolyOne-produced solutions, principally to the North American, Central American and Asian markets. These products are sold to over 6,500 custom injection molders and extruders who, in turn, convert them into plastic parts that are sold to end-users in a wide range of industries. Representing over 25 major suppliers, we offer our customers a broad product portfolio, just-in-time delivery from multiple stocking locations and local technical

support. Expansion in Central America and Asia have bolstered Distribution's ability to serve the specialized needs of customers globally.

Financial information by reportable segment is as follows:

Year Ended December 31, 2019 (In millions)	Sales to External Customers	Intersegment Sales	Total Sales	Operating Income	Depreciation and Amortization	Capital Expenditures
Color, Additives and Inks	\$ 998.2	\$ 5.6	\$ 1,003.8	\$ 147.4	\$ 43.2	\$ 21.5
Specialty Engineered Materials	689.6	56.1	745.7	86.8	29.8	23.3
Distribution	1,172.9	19.3	1,192.2	75.4	0.5	1.6
Corporate and eliminations	2.0	(81.0)	(79.0)	(152.8)	4.6	21.2
Total	\$ 2,862.7	\$ —	\$ 2,862.7	\$ 156.8	\$ 78.1	\$ 67.6

Year Ended December 31, 2018 (In millions)	Sales to External Customers	Intersegment Sales	Total Sales	Operating Income	Depreciation and Amortization	Capital Expenditures
Color, Additives and Inks	\$ 1,040.6	\$ 5.9	\$ 1,046.5	\$ 158.5	\$ 44.3	\$ 22.9
Specialty Engineered Materials	593.6	52.2	645.8	72.3	23.2	25.2
Distribution	1,246.8	18.6	1,265.4	71.5	0.7	0.1
Corporate and eliminations	—	(76.7)	(76.7)	(123.7)	4.4	8.3
Total	\$ 2,881.0	\$ —	\$ 2,881.0	\$ 178.6	\$ 72.6	\$ 56.5

Year Ended December 31, 2017 (In millions)	Sales to External Customers	Intersegment Sales	Total Sales	Operating Income	Depreciation and Amortization	Capital Expenditures
Color, Additives and Inks	\$ 877.7	\$ 15.5	\$ 893.2	\$ 138.6	\$ 41.2	\$ 21.2
Specialty Engineered Materials	574.8	49.5	624.3	75.5	21.1	23.4
Distribution	1,137.8	16.8	1,154.6	72.6	0.8	0.5
Corporate and eliminations	—	(81.8)	(81.8)	(113.6)	4.2	9.3
Total	\$ 2,590.3	\$ —	\$ 2,590.3	\$ 173.1	\$ 67.3	\$ 54.4

Our sales are primarily to customers in the United States, Canada, Mexico, Europe, South America and Asia, and the majority of our assets are located in these same geographic areas. The following is a summary of sales and long-lived assets based on the geographic areas where the sales originated and where the assets are located:

(In millions)	2019	2018	2017
Sales:			
United States	\$ 1,560.4	\$ 1,543.1	\$ 1,439.2
Europe	556.2	547.4	455.7
Canada	140.6	142.2	133.8
Asia	316.5	331.8	296.3
Mexico	261.2	296.5	246.2
South America	27.8	20.0	19.1
Total Sales	\$ 2,862.7	\$ 2,881.0	\$ 2,590.3
(In millions)			
Total Assets:			
Color, Additives and Inks	\$ 1,215.8	\$ 1,243.5	
Specialty Engineered Materials	774.0	599.0	
Distribution	235.6	249.0	
Corporate and eliminations	1,047.9	377.6	
Assets held for sale	—	254.2	
Total	\$ 3,273.3	\$ 2,723.3	
(In millions)			
Long lived assets:			
United States	\$ 220.0	\$ 205.4	
Europe	98.1	113.5	
Canada	0.1	0.2	
Asia	77.3	57.5	
Mexico	5.5	6.2	
South America	6.4	1.7	
Total Long lived assets	\$ 407.4	\$ 384.5	

Note 15 — DERIVATIVES AND HEDGING

We are exposed to market risks, such as changes in foreign currency exchange rates and interest rates. To manage the volatility related to these exposures we may enter into various derivative transactions. As of December 31, 2019, we had derivatives designated as net investment hedging and cash flow hedging instruments.

Net Investment Hedge

During October and December 2018, as a means of mitigating the impact of currency fluctuations on our Euro investments in foreign entities, we executed a total of six cross currency swaps, in which we will pay fixed-rate interest in Euros and receive fixed-rate interest in U.S. dollars with a combined notional amount of 250.0 million Euros and which mature in March 2023. This effectively converts a portion of our U.S. Dollar denominated fixed-rate debt to Euro denominated fixed-rate debt. That conversion resulted in net benefits of \$8.3 million and \$2.0 million for the years ended December 31, 2019 and 2018, respectively, which was recognized within *Interest expense, net* within the Condensed Consolidated Statements of Income.

We designated the swaps as net investment hedges of our net investment in our European operations under ASU 2017-12 and applied the spot method to these hedges. For the years ended December 31, 2019 and 2018, gains of \$9.1 million and \$2.0 million, respectively, were recognized within translation adjustments in AOCI, net of tax.

Cash Flow Hedging Instruments

In August 2018, we entered into two interest rate swaps with a combined notional amount of \$150.0 million to manage the variability of cash flows in the interest rate payments associated with our existing LIBOR-based interest payments, effectively converting \$150.0 million of our floating rate debt to a fixed rate. We began to receive floating rate interest payments based upon one month U.S. dollar LIBOR and in return are obligated to pay interest at a

fixed rate of 2.732% until November 2022. We have designated these swap contracts as cash flow hedges pursuant to ASC 815, *Derivatives and Hedging*. The amount of expense recognized within *Interest expense, net* in our Consolidated Statements of Income (Loss) was \$0.7 million and \$0.3 million for the years ending December 31, 2019 and 2018, respectively. The amount of loss recognized in AOCI, net of tax was \$2.5 million and \$1.3 million for the years ended December 31, 2019 and 2018, respectively.

All of our derivative assets and liabilities measured at fair value are classified as Level 2 within the fair value hierarchy. We determine the fair value of our derivatives based on valuation methods, which project future cash flows and discount the future amounts present value using market based observable inputs, including interest rate curves and foreign currency rates. The fair value of derivative financial instruments recognized in the Condensed Consolidated Balance Sheets is as follows:

(In millions)	Balance Sheet Location	December 31, 2019	December 31, 2018
Assets			
Cross Currency Swaps (Net Investment Hedge)	Other non-current assets	\$ 14.7	\$ 2.6
Liabilities			
Interest Rate Swap (Fair Value Hedge)	Other non-current liabilities	\$ 5.1	\$ 1.7

Note 16 — SELECTED QUARTERLY FINANCIAL DATA (UNAUDITED)

(In millions, except per share data)	2019 Quarters				2018 Quarters			
	Fourth ⁽²⁾	Third ⁽³⁾	Second ⁽⁴⁾	First ⁽⁵⁾	Fourth ⁽⁶⁾	Third ⁽⁷⁾	Second ⁽⁸⁾	First ⁽⁹⁾
Sales	\$ 658.6	\$ 705.3	\$ 748.2	\$ 750.6	\$ 677.1	\$ 729.0	\$ 743.9	\$ 731.0
Gross Margin	153.3	160.5	175.3	168.1	140.9	157.2	162.9	163.8
Operating Income	20.5	43.1	46.1	47.1	30.2	48.7	49.6	50.1
Net income (loss) from continuing operations	6.4	23.6	23.2	22.5	(1.5)	32.5	29.4	27.0
Net income from continuing operations attributable to PolyOne Shareholders	6.4	23.5	23.2	22.4	(1.3)	32.5	29.5	27.0
Income (loss) from discontinued operations, net of income taxes	458.9	19.5	18.9	15.8	12.7	17.7	21.8	19.9
Net income (loss) attributable to PolyOne common shareholders	\$ 465.3	\$ 43.0	\$ 42.1	\$ 38.2	\$ 11.4	\$ 50.2	\$ 51.3	\$ 46.9
Earnings (loss) per share from continuing operations attributable to PolyOne shareholders: ⁽¹⁾								
Basic earnings per share	\$ 0.08	\$ 0.31	\$ 0.30	\$ 0.29	\$ (0.02)	\$ 0.41	\$ 0.37	\$ 0.34
Diluted earnings per share	\$ 0.08	\$ 0.30	\$ 0.30	\$ 0.29	\$ (0.02)	\$ 0.40	\$ 0.37	\$ 0.33
Earnings (loss) per share from discontinued operations: ⁽¹⁾								
Basic earnings per share	\$ 5.97	\$ 0.25	\$ 0.24	\$ 0.20	\$ 0.16	\$ 0.22	\$ 0.27	\$ 0.25
Diluted earnings per share	\$ 5.92	\$ 0.25	\$ 0.24	\$ 0.20	\$ 0.16	\$ 0.22	\$ 0.27	\$ 0.24
Total earnings (loss) per share attributable to PolyOne shareholders: ⁽¹⁾								
Basic earnings per share	\$ 6.05	\$ 0.56	\$ 0.54	\$ 0.49	\$ 0.15	\$ 0.63	\$ 0.64	\$ 0.58
Diluted earnings per share	\$ 6.00	\$ 0.56	\$ 0.54	\$ 0.49	\$ 0.14	\$ 0.62	\$ 0.63	\$ 0.58

(1) Per share amounts for each quarter and the full year have been computed separately. The sum of the quarterly amounts may not equal the annual amounts presented because of the differences in average shares outstanding during each period.

(2) Included for the fourth quarter 2019 are: 1) acquisition charges and earnout adjustments of \$20.9 million, 2) mark-to-market pension and other post-retirement gains of \$9.6 million, 3) restructuring activities of \$4.1 million, 4) legal costs of \$1.9 million, and 5) an after-tax gain on the sale of discontinued operations of \$457.7 million.

(3) Included for the third quarter 2019 are: 1) acquisition charges and earnout adjustments of \$11.1 million, 2) environmental remediation expenses of \$6.4 million, and 3) legal costs of \$1.6 million.

(4) Included for the second quarter 2019 are: 1) acquisition related charges of \$10.7 million, 2) legal expenses of \$3.7 million, 3) restructuring charges of \$2.3 million, and 4) environmental remediation expenses of \$1.9 million.

(5) Included for the first quarter 2019 are: 1) restructuring expenses of \$3.9 million, 2) legal expenses of \$2.4 million, 3) acquisition related charges of \$2.2 million, and 4) environmental remediation expenses of \$2.1 million.

(6) Included for the fourth quarter 2018 are: 1) mark-to-market pension and other post-retirement charge of \$15.6 million, 2) environmental remediation costs of \$3.9 million and 3) acquisition related costs and adjustments of \$1.5 million.

- (7) Included for the third quarter 2018 are: 1) environmental remediation costs of \$7.4 million and 2) a gain related to the reimbursement of previously incurred environmental costs of \$1.5 million.
- (8) Included for the second quarter 2018 are: 1) environmental remediation costs of \$8.7 million, 2) acquisition related costs and adjustments of \$1.9 million and 3) a gain related to the reimbursement of previously incurred environmental costs of \$1.6 million.
- (9) Included for the first quarter 2018 are: 1) environmental remediation costs of \$3.1 million and 2) acquisition related costs and adjustments of \$1.9 million.

Note 17 — SUBSEQUENT EVENTS

In February 2020, we received net proceeds of approximately \$496.8 million, after deducting the underwriters' discount but before deducting expenses, from the issuance of common shares in an underwritten public offering (the Equity Offering). For additional disclosure and detail, see Note 2, *Business Combinations*.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure controls and procedures

PolyOne's management, with the participation of the Chief Executive Officer and the Chief Financial Officer, has evaluated the effectiveness of the design and operation of PolyOne's disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934) as of December 31, 2019. Based on this evaluation, the Chief Executive Officer and the Chief Financial Officer have concluded that our disclosure controls and procedures were effective as of December 31, 2019.

Management's Annual Report On Internal Control Over Financial Reporting

The following report is provided by management in respect of PolyOne's internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Securities Exchange Act of 1934):

1. PolyOne's management is responsible for establishing and maintaining adequate internal control over financial reporting.
2. Under the supervision of and with participation of PolyOne's management, including the Chief Executive Officer and the Chief Financial Officer, we conducted an evaluation of the effectiveness of internal control over financial reporting as of December 31, 2019 based on the guidelines established in *Internal Control - Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) (2013 Framework). Management believes that the 2013 Framework is a suitable framework for its evaluation of financial reporting because it is free from bias, permits reasonably consistent qualitative and quantitative measurements of PolyOne's internal control over financial reporting, is sufficiently complete so that those relevant factors that would alter a conclusion about the effectiveness of PolyOne's internal control over financial reporting are not omitted and is relevant to an evaluation of internal control over financial reporting.
3. Based on the results of our evaluation, management has concluded that such internal control over financial reporting was effective as of December 31, 2019. There were no material weaknesses in internal control over financial reporting identified by management. The results of management's assessment were reviewed with our Audit Committee.
4. Ernst & Young LLP, who audited the consolidated financial statements of PolyOne for the year ended December 31, 2019, also issued an attestation report on PolyOne's internal control over financial reporting under Auditing Standard No. 2201 of the Public Company Accounting Oversight Board. This attestation report is set forth on page 32 of this Annual Report on Form 10-K and is incorporated by reference into this Item 9A.

Changes in internal control over financial reporting

There were no changes in the Company's internal control over financial reporting that occurred during the quarter ended December 31, 2019 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

Limitations in internal control over financial reporting

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

ITEM 9B. OTHER INFORMATION

None.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information regarding PolyOne's directors, including the identification of the audit committee and audit committee financial experts, is incorporated by reference to the information contained in PolyOne's Proxy Statement with respect to the 2020 Annual Meeting of Shareholders (2020 Proxy Statement). Information concerning executive officers is contained in Part I of this Annual Report on Form 10-K under the heading "Information About Our Executive Officers."

The information regarding Section 16(a) beneficial ownership reporting compliance is incorporated by reference to the material under the heading "Delinquent Section 16(a) Reports" in the 2020 Proxy Statement.

The information regarding any changes in procedures by which shareholders may recommend nominees to PolyOne's Board of Directors is incorporated by reference to the information contained in the 2020 Proxy Statement.

PolyOne has adopted a code of ethics that applies to its principal executive officer, principal financial officer and principal accounting officer. PolyOne's code of ethics is posted under the Investor Relations tab of its website at www.polyone.com. PolyOne will post any amendments to, or waivers of, its code of ethics that apply to its principal executive officer, principal financial officer and principal accounting officer on its website.

ITEM 11. EXECUTIVE COMPENSATION

The information regarding executive officer and director compensation is incorporated by reference to the information contained in the 2020 Proxy Statement.

The information regarding compensation committee interlocks and insider participation and the compensation committee report is incorporated by reference to the information contained in the 2020 Proxy Statement.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED SHAREHOLDER MATTERS

Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights ⁽¹⁾	Weighted-average exercise price of outstanding options, warrants and rights	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
	(a)	(b)	(c)
Equity compensation plans approved by security holders	2,187,767	\$32.04	1,368,932
Equity compensation plans not approved by security holders	—	—	—
Total	2,187,767	\$32.04	1,368,932

⁽¹⁾ In addition to options, warrants and rights, the PolyOne Corporation 2017 Equity and Incentive Compensation Plan (the 2017 EICP) authorizes the issuance of restricted stock, restricted stock units, performance shares and awards to Non-Employee Directors. The 2017 EICP limits the total number of shares that may be issued as one or more of these types of awards to 2.5 million.

The information regarding security ownership of certain beneficial owners is incorporated by reference to the information contained in the 2020 Proxy Statement.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information regarding certain relationships and related transactions and director independence is incorporated by reference to the information contained in the 2020 Proxy Statement.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

Information regarding fees paid to and services provided by PolyOne's independent registered public accounting firm and the pre-approval policies and procedures of the audit committee is incorporated by reference to the information contained in the 2020 Proxy Statement.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a)(1) Financial Statements:

The following consolidated financial statements of PolyOne Corporation are included in Item 8:

Consolidated Statements of Income (Loss) for the years ended December 31, 2019, 2018 and 2017

Consolidated Statements of Comprehensive Income (Loss) for the years ended December 31, 2019, 2018 and 2017

Consolidated Balance Sheets at December 31, 2019 and 2018

Consolidated Statements of Cash Flows for the years ended December 31, 2019, 2018 and 2017

Consolidated Statements of Shareholders' Equity for the years ended December 31, 2019, 2018 and 2017

Notes to Consolidated Financial Statements

All other schedules for which provision is made in Regulation S-X of the SEC are not required under the related instructions or are inapplicable and, therefore, have been omitted.

(a)(3) Exhibits:

<u>Exhibit No.</u>	<u>Exhibit Description</u>
<u>2.1†</u>	<u>Equity Purchase Agreement dated June 29, 2017, by and among PolyOne Corporation, PolyOne Designed Structures and Solutions LLC and NLIN Plastics, LLC (incorporated by reference to Exhibit 2.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017, SEC File No. 1-16091)</u>
<u>2.2†</u>	<u>Asset Purchase Agreement, dated August 16, 2019, by and among PolyOne Corporation and SK Echo Group S.à r.l. (incorporated by reference to Exhibit 2.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2019, SEC File no. 1-16091)</u>
<u>2.3†**</u>	<u>Share Purchase Agreement, dated December 19, 2019, by and between PolyOne Corporation and Clariant AG</u>
<u>3.1</u>	<u>Articles of Incorporation (incorporated by reference to Exhibit 3(i) to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2000, SEC File No. 1-16091)</u>
<u>3.2</u>	<u>Amendment to the Second Article of the Articles of Incorporation, as filed with the Ohio Secretary of State, November 25, 2003 (incorporated by reference to Exhibit 3.1a to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2003, SEC File No. 1-16091)</u>
<u>3.3</u>	<u>Regulations (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed on July 17, 2009, SEC File No. 1-16091)</u>
<u>4.1</u>	<u>Indenture, dated February 28, 2013, between PolyOne Corporation and Wells Fargo Bank, National Association, as trustee (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K filed on March 5, 2013, SEC File No. 1-16091)</u>
<u>4.2**</u>	<u>Description of Securities</u>
<u>10.1</u>	<u>Third Amended and Restated Credit Agreement, dated June 28, 2019, by and among PolyOne Corporation, the subsidiaries of PolyOne Corporation party thereto, Wells Fargo Capital Finance, LLC, as administrative agent, and the various Ineders and other agents party thereto (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019, SEC File No. 1-16091.</u>
<u>10.2</u>	<u>Credit Agreement, dated November 12, 2015, by and among PolyOne Corporation, as borrower, Citibank, N.A., as administrative agent, each of Citigroup Global Markets Inc., Wells Fargo Securities LLC, Goldman, Sachs & Co., HSBC Securities (USA) Inc. and Morgan Stanley & Co. LLC, as joint-lead arrangers and joint-book managers, Jefferies Finance LLC, KeyBanc Capital Markets Inc. and SunTrust Robinson Humphrey, Inc., as co-managers, and several other commercial lending institutions that are parties thereto (incorporated by reference to Exhibit 10.6 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2015, SEC File No. 1-16091)</u>
<u>10.3</u>	<u>Amendment Agreement No. 1 to the Credit Agreement, dated as of June 15, 2016, among the Company, certain subsidiaries of the Company, Citibank, N.A., as administrative agent, and the additional lender party thereto (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016, SEC File No. 16091)</u>
<u>10.4</u>	<u>Amendment Agreement No. 2, dated August 3, 2016, by and among PolyOne Corporation, the subsidiaries of PolyOne Corporation party thereto, Citibank, N.A, as administrative agent, and the lenders party thereto (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on August 5, 2016, SEC File No. 1-16091)</u>
<u>10.5</u>	<u>Amendment Agreement No. 3, dated January 24, 2017, by and among PolyOne Corporation, the subsidiaries of PolyOne Corporation party thereto, Citibank, N.A., as administrative agent, and the lenders party thereto (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017, SEC File No. 1-16091)</u>
<u>10.6</u>	<u>Amendment Agreement No. 4, dated August 15, 2017, by and among PolyOne Corporation, the subsidiaries of PolyOne Corporation party thereto, Citibank, N.A., as administrative agent, and the lenders party thereto (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017, SEC File No. 1-16091)</u>

- 10.7 Amendment Agreement No. 5, dated April 11, 2018, by and among PolyOne Corporation, the subsidiaries of PolyOne Corporation party thereto, Citibank, N.A., as administrative agent, and the lenders party thereto (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018, SEC File No. 1-16091)
- 10.8 Amendment Agreement No. 6, dated November 9, 2018, by and among PolyOne Corporation, the subsidiaries of PolyOne Corporation party thereto, Citibank, N.A. as administrative agent, and the lenders party thereto (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on November 13, 2018, SEC File No. 1-16091)
- 10.9+ Form of 2011 Award Agreement under the 2010 Equity and Performance Incentive Plan (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2011, SEC File No. 1-16091)
- 10.10+ Amended and Restated PolyOne Corporation 2010 Equity and Performance Incentive Plan (incorporated by reference to Appendix B to the Company's definitive proxy statement on Schedule 14A filed on April 3, 2015, SEC File No. 1-16091)
- 10.11+ First Amendment to the PolyOne Supplemental Retirement Benefit Plan (As Amended and Restated Effective January 1, 2014), dated as of March 16, 2016; Amendment No. 2 to the PolyOne Supplemental Retirement Benefit Plan (As Amended and Restated Effective January 1, 2014), dated as of December 19, 2018; and Amendment No. 3 to the PolyOne Supplemental Retirement Benefit Plan (As Amended and Restated Effective January 1, 2014), dated as of April 18, 2019 (incorporated by reference to Exhibit 4.5 to the Company's Registration Statement on Form S-8, filed on May 6, 2019, SEC File No. 333-231236)
- 10.12+ PolyOne 2017 Equity and Incentive Compensation Plan (incorporated by reference to Appendix B to the Company's definitive proxy statement on Schedule 14A filed on March 31, 2017, SEC File No. 1-16091)
- 10.13+ Form of Grant of Stock-Settled Stock Appreciation Rights under the 2010 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2010, SEC File No. 1-16091)
- 10.14+ Amended and Restated Deferred Compensation Plan for Non-Employee Directors (as amended and restated effective May 20, 2014) (incorporated by reference to Exhibit 10.7 of the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2014, SEC File No. 1-16091)
- 10.15+ Form of Management Continuity Agreement for Executive Officers prior to 2011 (incorporated by reference to Exhibit 10.13 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2007, SEC File No. 1-16091)
- 10.16+ Form of Management Continuity Agreement for Executive Officers after 2011 (incorporated by reference to Exhibit 10.12 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2013, SEC File No. 1-16091)
- 10.17+** Schedule of Executive Officers with Management Continuity Agreements
- 10.18+ PolyOne Supplemental Retirement Benefit Plan (As Amended and Restated Effective January 1, 2014) (incorporated by reference to Exhibit 10.14 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2013, SEC file No. 1-16091)
- 10.19 Assumption of Liabilities and Indemnification Agreement, dated March 1, 1993, amended and restated by Amended and Restated Assumption of Liabilities and Indemnification Agreement, dated April 27, 1993 (incorporated by reference to Exhibit 10.14 to The Geon Company's Annual Report on Form 10-K for the fiscal year ended December 31, 1996, SEC File No. 1-11804)
- 10.20+ Executive Severance Plan, as amended and restated effective May 15, 2014 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2014, SEC File No. 1-16091)
- 10.21+ Form of 2012 Award Agreement under the PolyOne Corporation 2010 Equity and Performance Incentive Plan, as amended (incorporated by reference to Exhibit 10.38 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2012, SEC File No. 1-16091)
- 10.22+ Form of 2013 Award Agreement under the PolyOne Corporation 2010 Equity and Performance Incentive Plan, as amended (incorporated by reference to Exhibit 10.27 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2013, SEC File No. 1-16091)
- 10.23+ Form of Director and Officer Indemnification Agreement (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on July 5, 2006, SEC File No. 1-16091)
- 10.24+ Form of 2014 Award Agreement under the PolyOne Corporation 2010 Equity and Performance Incentive Plan, as amended (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2014, SEC File No. 1-16091)

Exhibit No.	Exhibit Description
<u>21.1**</u>	<u>Subsidiaries of the Company</u>
<u>23.1**</u>	<u>Consent of Independent Registered Public Accounting Firm - Ernst & Young LLP</u>
<u>31.1**</u>	<u>Certification of Robert M. Patterson, Chairman, President and Chief Executive Officer, pursuant to SEC Rules 13a-14(a) and 15d-14(a), adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u>
<u>31.2**</u>	<u>Certification of Bradley C. Richardson, Executive Vice President and Chief Financial Officer, pursuant to SEC Rules 13a-14(a) and 15d-14(a), adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u>
<u>32.1**</u>	<u>Certification pursuant to 18 U.S.C. § 1350, adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, as signed by Robert M. Patterson, Chairman, President and Chief Executive Officer</u>
<u>32.2**</u>	<u>Certification pursuant to 18 U.S.C. § 1350, adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, as signed by Bradley C. Richardson, Executive Vice President and Chief Financial Officer</u>
101 .INS**	Inline XBRL Instance Document
101 .SCH**	Inline XBRL Taxonomy Extension Schema Document
101 .CAL**	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101 .LAB**	Inline XBRL Taxonomy Extension Label Linkbase Document
101 .PRE**	Inline XBRL Taxonomy Extension Presentation Linkbase Document
101 .DEF**	Inline XBRL Taxonomy Definition Linkbase Document
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

+ Indicates management contract or compensatory plan, contract or arrangement in which one or more directors or executive officers of the Registrant may be participants

† The exhibits and schedules have been omitted pursuant to Item 601(a)(5) of Regulation S-K and will be provided to the Securities and Exchange Commission upon request.

** Filed herewith.

ITEM 16. FORM 10-K SUMMARY

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

POLYONE CORPORATION

February 18, 2020

BY: /S/ BRADLEY C. RICHARDSON

Bradley C. Richardson
Executive Vice President and Chief Financial Officer
(Principal Financial and Accounting Officer)

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities indicated and on the dates indicated.

<u>Signature and Title</u>		
<u>/S/ ROBERT M. PATTERSON</u> Robert M. Patterson	Chairman, President and Chief Executive Officer (Principal Executive Officer)	February 18, 2020
<u>/S/ BRADLEY C. RICHARDSON</u> Bradley C. Richardson	Executive Vice President and Chief Financial Officer (Principal Financial and Accounting Officer)	February 18, 2020
<u>/S/ ROBERT E. ABERNATHY</u> Robert E. Abernathy	Director	February 18, 2020
<u>/S/ RICHARD H. FEARON</u> Richard H. Fearon	Director	February 18, 2020
<u>/S/ GREGORY J. GOFF</u> Gregory J. Goff	Director	February 18, 2020
<u>/S/ WILLIAM R. JELLISON</u> William R. Jellison	Director	February 18, 2020
<u>/S/ SANDRA BEACH LIN</u> Sandra Beach Lin	Director	February 18, 2020
<u>/S/ KIM ANN MINK</u> Kim Ann Mink	Director	February 18, 2020
<u>/S/ KERRY J. PREETE</u> Kerry J. Preete	Director	February 18, 2020
<u>/S/ PATRICIA VERDUIN</u> Patricia Verduin	Director	February 18, 2020
<u>/S/ WILLIAM A. WULFSOHN</u> William A. Wulfsohn	Director	February 18, 2020

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CERTIFICATION

I, Robert M. Patterson, certify that:

1. I have reviewed this Annual Report on Form 10-K of PolyOne Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Robert M. Patterson

Robert M. Patterson
Chairman, President and Chief Executive Officer

February 18, 2020

POLYONE CORPORATION

CERTIFICATION

I, Bradley C. Richardson, certify that:

1. I have reviewed this Annual Report on Form 10-K of PolyOne Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Bradley C. Richardson

Bradley C. Richardson
Executive Vice President and Chief Financial Officer

February 18, 2020

POLYONE CORPORATION

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K of PolyOne Corporation (the "Company") for the year ended December 31, 2019, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Robert M. Patterson, Chairman, President and Chief Executive Officer of the Company, do hereby certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company as of the dates and for the periods expressed in the Report.

/s/ Robert M. Patterson

Robert M. Patterson
Chairman, President and Chief Executive Officer

February 18, 2020

The foregoing certification is being furnished solely pursuant to 18 U.S.C. § 1350 and is not being filed as part of the Report or as a separate disclosure document.

POLYONE CORPORATION

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K of PolyOne Corporation (the "Company") for the year ended December 31, 2019, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Bradley C. Richardson, Executive Vice President and Chief Financial Officer of the Company, do hereby certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company as of the dates and for the periods expressed in the Report.

/s/ Bradley C. Richardson

Bradley C. Richardson
Executive Vice President and Chief Financial Officer

February 18, 2020

The foregoing certification is being furnished solely pursuant to 18 U.S.C. § 1350 and is not being filed as part of the Report or as a separate disclosure document.

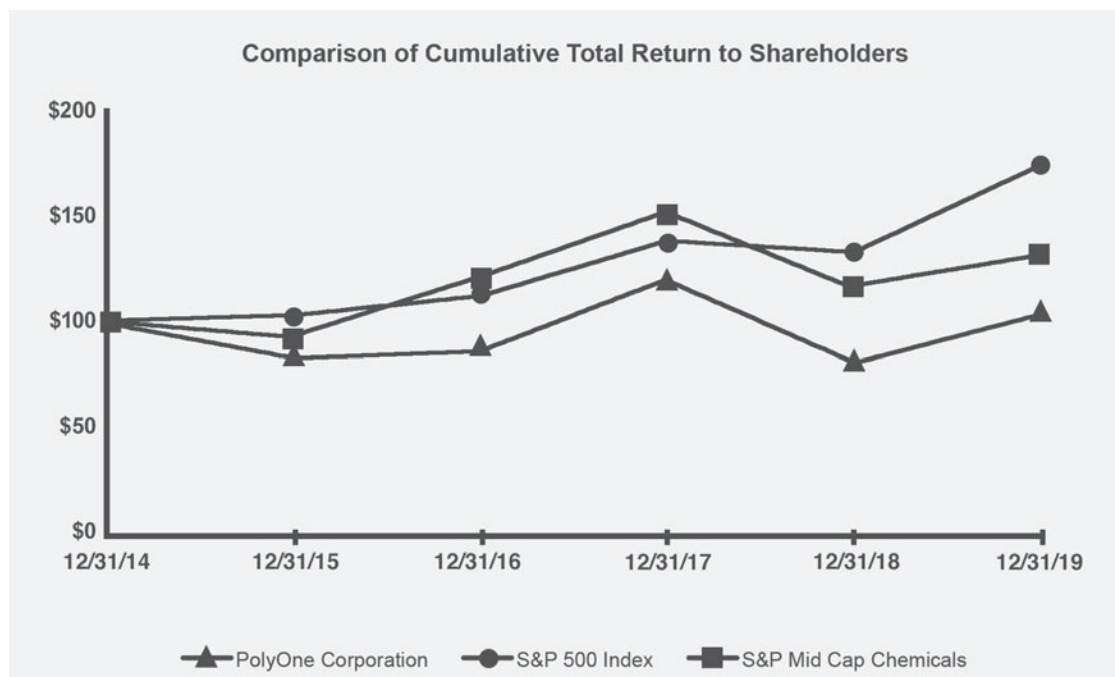
POLYONE CORPORATION

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PolyOne Stock Performance

The following is a graph that compares the cumulative total shareholder returns for PolyOne's common shares, the S&P 500 index and the S&P Mid Cap Chemicals index, with dividends assumed to be reinvested when received. The graph assumes the investing of \$100 from December 31, 2014 through December 31, 2019. The S&P Mid Cap Chemicals index includes a broad range of chemical manufacturers. Because of the relationship of PolyOne's business within the chemical industry, comparison with this broader index is appropriate.



STOCK EXCHANGE LISTING

PolyOne's Common Stock is listed on the New York Stock Exchange, Symbol: POL.

SHAREHOLDER INQUIRIES

If you have any questions concerning your account as a shareholder, name or address changes, inquiries regarding stock certificates, or if you need tax information regarding your account, please contact our transfer agent:

Equiniti Trust Company
 1110 Centre Pointe Curve, Suite 101
 Mendota Heights, MN 55120-4100
 Phone: 1-855-598-2615
 or 1-651-450-4064
www.shareowneronline.com

Additional information about PolyOne, including current and historic copies of Annual Reports on Form 10-K and other reports filed with the Securities and Exchange Commission, is available online at www.polyone.com or free of charge from:

Investor Affairs Relations
 PolyOne Corporation
 33587 Walker Road
 Avon Lake, Ohio 44012
 Phone: 440-930-1000

ANNUAL MEETING

The annual meeting of shareholders of PolyOne will be held May 14, 2020 at 9:00 a.m. at PolyOne's Corporate headquarters, 33587 Walker Road, Avon Lake, Ohio. The meeting notice and proxy materials were mailed to shareholders with this annual report. PolyOne urges all shareholders to vote their proxies so that they can participate in the decisions at the annual meeting.

FINANCIAL INFORMATION

Security analysts and representatives of financial institutions are invited to contact:

Joe Di Salvo
 Vice President, Treasurer and Investor Relations
 Phone: 440-930-1921
 Email: giuseppe.disalvo@polyone.com

AUDITORS

Ernst & Young LLP
 950 Main Ave., Suite 1800
 Cleveland, OH 44113

INTERNET ACCESS

Information on PolyOne's products and services, news releases, corporate governance, EDGAR filings, Reports on Forms 10-K and 10-Q, etc. as well as an electronic version of this annual report, are available on the Internet at www.polyone.com.

Reconciliation of Non-GAAP Financial Measures (Unaudited)

(Dollars in millions, except per share data)

Senior management uses comparisons of adjusted net income from continuing operations attributable to PolyOne shareholders and diluted adjusted earnings per share (EPS) from continuing operations attributable to PolyOne shareholders, excluding special items, to assess performance and facilitate comparability of results. Senior management believes these measures are useful to investors because they allow for comparison to PolyOne's performance in prior periods without the effect of items that, by their nature, tend to obscure PolyOne's operating results due to the potential variability across periods based on timing, frequency and magnitude. Non-GAAP financial measures have limitations as analytical tools and should not be considered in isolation from, or solely as alternatives to, financial measures prepared in accordance with GAAP. Below is a reconciliation of these non-GAAP financial measures to their most directly comparable financial measures calculated and presented in accordance with GAAP.

Adjusted EPS attributable to PolyOne common shareholders is calculated as follows:

	2009*	2010*	2011*	2012*	2013*	2014*	2015*	2016**	2017**	2018	2018***	2019***
Net income from continuing operations attributable to PolyOne common shareholders	\$ 106.7	\$ 152.5	\$ 153.4	\$ 53.3	\$ 94.0	\$ 78.0	\$ 144.6	\$ 166.4	\$ 173.5	\$ 161.1	\$ 87.7	\$ 75.5
Joint venture equity earnings, after tax	(19.0)	(14.7)	(3.7)	—	—	—	—	—	—	—	—	—
Special items, before tax ⁽¹⁾	(48.7)	24.2	(48.1)	55.1	46.3	164.2	87.6	23.8	32.9	59.5	58.7	61.7
Special items, tax adjustments ⁽¹⁾	(27.2)	(96.7)	(24.7)	(18.9)	(13.7)	(73.7)	(58.7)	(15.9)	(24.8)	(25.3)	(25.1)	(5.9)
Adjusted net income from continuing operations attributable to PolyOne common shareholders	\$ 11.8	\$ 65.3	\$ 76.9	\$ 89.5	\$ 126.6	\$ 168.5	\$ 173.5	\$ 174.3	\$ 181.6	\$ 195.3	\$ 121.3	\$ 131.3
Diluted shares	93.4	96.0	94.3	89.8	96.5	93.5	88.7	84.6	82.1	80.4	80.4	77.7
Adjusted EPS attributable to PolyOne common shareholders	\$ 0.13	\$ 0.68	\$ 0.82	\$ 1.00	\$ 1.31	\$ 1.80	\$ 1.96	\$ 2.06	\$ 2.21	\$ 2.43	\$ 1.51	\$ 1.69

* Historical results are shown as presented in prior filings and have not been updated to reflect subsequent changes in accounting principle, discontinued operations or the related resegmentation.

** Pro Forma for sale of Designed Structures and Solutions segment (DSS).

*** Pro Forma for sale of Performance Products and Solutions segment (PP&S).

(1) Special items include charges related to specific strategic initiatives or financial restructuring such as: consolidation of operations; debt extinguishment costs; costs incurred directly in relation to acquisitions or divestitures, including adjustments related to contingent consideration; employee separation costs resulting from personnel reduction programs, plant realignment costs, executive separation agreements; asset impairments; mark-to-market adjustments associated with actuarial gains and losses on pension and other post-retirement benefit plans; environmental remediation costs, fines, penalties and related insurance recoveries related to facilities no longer owned or closed in prior years; gains and losses on the divestiture of operating businesses, joint ventures and equity investments; gains and losses on facility or property sales or disposals; results of litigation, fines or penalties, where such litigation (or action relating to the fines or penalties) arose prior to the commencement of the performance period; one-time, non-recurring items; and the effect of changes in accounting principles or other such laws or provisions affecting reported results. Tax adjustments include the net tax benefit/(expense) from one-time income tax items, the set-up or reversal of uncertain tax position reserves and deferred income tax valuation allowance adjustments.

LEADERSHIP



PolyOne Corporation Board of Directors (Left to Right): Patricia Verduin, Kerry J. Preete, Gregory J. Goff, Kim Ann Mink, Robert E. Abernathy, Robert M. Patterson, Richard H. Fearon, William A. Wulfsohn, Sandra B. Lin, and William R. Jellison.

CORPORATE OFFICERS

ROBERT M. PATTERSON
Chairman, President and Chief Executive Officer

BRADLEY C. RICHARDSON
Executive Vice President, Chief Financial Officer

GIUSEPPE Di SALVO
Vice President, Treasurer and Investor Relations

CATHY K. DODD
Vice President, Marketing

MICHAEL A. GARRATT
Senior Vice President, Chief Commercial Officer

JUSTIN M. HESS
Vice President, Corporate Controller

J. SCOTT HORN, JR.
Senior Vice President, President of Distribution

DAVID A. JARUS, Ph.D.
Vice President, Research and Development

AVERY L. JOHNSON
Vice President, Tax

HOLGER KRONIMUS
Vice President, Europe, General Manager, Engineered Materials, Europe

LISA K. KUNKLE
Senior Vice President, General Counsel and Secretary

M. JOHN MIDEA, JR.
Senior Vice President, Global Operations and Process Improvement

WOON KEAT MOH
Senior Vice President, President of Color, Additives and Inks

CHRISTOPHER L. PEDERSON
Senior Vice President, President of Specialty Engineered Materials

JOEL RATHBUN
Senior Vice President, Mergers & Acquisitions

JOÃO JOSÉ SAN MARTIN NETO
Senior Vice President, Chief Human Resources Officer

KURT C. SCHUERING
Vice President, Global Key Account Management

THOMAS TAYLOR
Vice President, Global Sourcing and Logistics

BOARD OF DIRECTORS

ROBERT M. PATTERSON
Chairman, President and Chief Executive Officer, PolyOne Corporation
Committee: 3

RICHARD H. FEARON
Lead Director, PolyOne Corporation
Vice Chairman and Chief Financial and Planning Officer, Eaton
Committees: 2, 4*

ROBERT E. ABERNATHY
Retired Chairman and Chief Executive Officer, Halyard Health, Inc.
Committees: 1, 2

GREGORY J. GOFF
Former Chairman, President and Chief Executive Officer, Andeavor
Committees: 3*, 4

WILLIAM R. JELLISON
Retired Vice President, Chief Financial Officer, Stryker Corporation
Committees: 1*, 3

SANDRA B. LIN
Retired President, Chief Executive Officer and Director, Calisolar Inc. (now Silicor Materials Inc.)
Committees: 1, 4

KIM ANN MINK, Ph.D.
Former Chairman, President and Chief Executive Officer, Innophos Holdings, Inc.
Committees: 1, 3

KERRY J. PREETE
Retired Executive Vice President, Chief Strategy Officer, Monsanto Company
Committees: 2*, 4

PATRICIA VERDUIN, Ph.D.
Chief Technology Officer, Colgate-Palmolive Company
Committees: 3, 4

WILLIAM A. WULFSOHN
Former Chairman and Chief Executive Officer, Ashland Global Holdings, Inc.
Committees: 1, 2

COMMITTEES

1. Audit
2. Compensation
3. Environmental, Health and Safety
4. Nominating & Governance

* Denotes Chairperson



Challenge Accepted.

POLYONE.COM

