

NEWS

04/06/2022

ExxonMobil Introduces New Exceed™ S Performance Polyethylene, Enabling Converters to Rethink Film Design for Simpler Solutions

SPRING, Texas – ExxonMobil introduced today its new Exceed™ S performance polyethylene (PE) resins, which deliver industry-leading combinations of stiffness and toughness while being easy to process. Utilizing the company's latest innovations in polymer science, the new PE platform provides opportunities to reduce the complexity of film formulations and designs while improving film performance, conversion efficiency, and packaging durability versus current market references.

-
- Ideal for films used in food, industrial and agricultural applications.
 - Can enhance mono-material, design for recycle, and help enable solutions containing recycled resin.
 - Can unlock film and package production efficiencies.
-

Modern film design is a story of increasing complexity and compromise between performance and processability that is accepted to ensure durable packaging and high customer satisfaction. Multi-component resin blends in coextruded and laminated films with high layer counts are common-place. Every step of producing and converting printed film into durable packaging is prone to complexity-induced inefficiency, scrap and human mistakes. What if your resin could help simplify all of this?

"Exceed™ S performance PE resins deliver simplicity without compromise," said Tom Miller, Exceed™ S marketing manager at ExxonMobil. "With Exceed S, converters can obtain high levels of performance with easy processing, stiffness and toughness with less blending, and resin solutions that can simplify operations and improve package durability. In short, it is a platform of performance polyethylene grades designed to do so much, so simply."

Innovative converters can rethink film design with Exceed™ S performance PE by...

- Creating stiff, tough functional layers to maximize performance
- Leveraging increased performance to help facilitate solutions with sustainability benefits
- Reducing the need to add HDPE for stiffness or LDPE for processing

- Creating flatter, less extensible films to increase print and package line efficiency
- Delivering more durable flexible packaging, contributing to consumer satisfaction and helping to reduce food waste

The first three commercially available grades of Exceed™ S resins are designed to ensure low melt pressure and high output on blown film lines. The combined benefits allow the creation of a broad range of packaging and film applications: (See Figure 1 for grade information)

- Large-format **heavy duty sacks** used in industry and agriculture along with silo bags for farming can benefit from increased puncture, impact and tear resistance. Exceed™ S resin's combination of low melt pressure and high extrusion output can also help increase converter's production capacity.
- In **primary packaging**, non-laminated coextruded films used in pouches and bags containing liquid, food, or other goods can benefit from improved toughness and are less likely to break when transported or dropped. For example, multi-wall bladders used in **hot-filled bag-in-box packaging** exhibit exceptional resistance to heat-induced blocking and flex cracking.
- **PE//PE laminates** with improved stiffness, toughness and bag drop survival can help facilitate larger pouch sizes and accommodate bulkier, heavier contents, helping to expand market usage of mechanically recyclable packaging.*

In these types of applications, the outstanding mechanical properties of Exceed™ S resins can be used to increase film performance, maintain comparable performance at a thinner gauge, produce more durable mono-material products, or incorporate high percentages of recycled content. Providing such solutions are part of ExxonMobil's four-pronged approach of using performance polymers to help facilitate solutions with sustainability benefits. (See Figure 2 for more information).

"ExxonMobil has been at the forefront of polyethylene innovation for nearly thirty years," said David Hergenrether, vice president for polyethylene at ExxonMobil. "The new Exceed™ S platform embodies our most advanced product and process development informed by deep, long-standing partnerships with our customers."

"The innovation opportunities that Exceed™ S performance polyethylene offers have already resulted in successful collaborations with more than 75 customers globally working on more than 100 different applications. We look forward to collaborating with our customers on new opportunities to advance their products."

To learn more about how ExxonMobil's Exceed™ S solutions can help converters rethink and simplify film design, visit:

<https://www.exxonmobilchemical.com/pe>

For additional sustainability benefits, converters can purchase certified circular Exceed™ S performance polyethylene, leveraging ExxonMobil's Exxtend™ technology for advanced recycling of plastic waste. To learn more about Exxtend™ technology, visit www.exxonmobilchemical.com/exxtend

Figure 1

Commercially available grades of Exceed™ S performance PE

	Density g/cm ³	Melt Index dg/min @ 190°C, 2.16kg
Exceed™ S 9272ML	0.920	0.80
Exceed™ S 9243ML	0.926	0.85
Exceed™ S 9333ML	0.925	2.0

Figure 2

Solutions with sustainability benefits enabled by performance polymers

Do more with less	Increase recycled content	Design for recyclability	Advanced Recycling
Polymers that deliver high performance, which can facilitate the manufacture of lighter and thinner plastic films and packaging.	Solutions that enable higher levels of recycled content incorporation while still meeting final product performance requirements.	Solutions that enable high-quality mono-material packaging structures that can be mechanically recycled.*	Certified circular polymers with Exxtend™ technology have the same quality and performance as virgin polymers.

All Data Sourced from ExxonMobil Unless Otherwise Specified.

About ExxonMobil PE

ExxonMobil's polyethylene portfolio offers converters and brand owners an extensive range of performance polymers as well as specialty co-polymers and additional polyethylene grades for numerous applications. Our performance polymer flagship brands deliver superior mechanical performance and unparalleled properties.

- Exceed™ S for high performance with easy processing; stiffness and toughness with less blending, and resin solutions that simplify operations and improve package durability

- Exceed™ XP for extreme performance
 - Exceed™ for outstanding sealing combined with best-in-class optics
 - Enable™ for easy processing resulting in improved operations.
- LDPE, LLDPE and HDPE polymers are also available.

With critical properties such as strength, durability and toughness, easier sealing, and outstanding optics, our leading-edge polyethylene formulations help create, protect and promote products throughout the packaging, agriculture, industrial, personal care and hygiene markets. From store shelves, to harvesting, to shipping, to the factory, products made with our performance polymers can help reduce risk of waste, breakage and spoilage across the value chain.

www.exxonmobilchemical.com/pe

About ExxonMobil

ExxonMobil, one of the largest publicly traded international energy companies, uses technology and innovation to help meet the world's growing energy needs. ExxonMobil holds an industry-leading inventory of resources, is one of the largest refiners and marketers of petroleum products, and its chemical company is one of the largest in the world. To learn more, visit exxonmobil.com and the **Energy Factor**.

Follow us on [Twitter](#) and [LinkedIn](#).

Cautionary Statement: Statements of future events or conditions in this release are forward-looking statements. Actual future results, our production capacity, and the impact of the COVID-19 pandemic on ExxonMobil's business and results could vary significantly depending on a number of factors including the supply and demand for oil, gas, and petroleum products and other market factors affecting oil, gas, petrochemical and feedstock prices; the outcome of government policies and actions, including actions taken to address COVID-19 and to maintain the functioning of national and global economies and markets; the severity, length and ultimate impact of COVID-19 on people and economies; the outcome of further research and testing; the development and competitiveness of alternative technologies; the impact of company actions to protect the health and safety of employees, vendors, customers, and communities; actions of competitors and commercial counterparties; the ability to scale pilot projects on a cost-effective basis; political and regulatory developments including actions that may favor certain types of technologies over others; the outcome of commercial negotiations; and other factors discussed under Item 1A Risk Factors in ExxonMobil's most recent annual report on Form 10-K and set forth under the heading "Factors Affecting Future Results" on the Investors page of our website at exxonmobil.com.

 **Public Company Information:** NYSE: XOM

 **Contact:** Media Line (832) 625-4000