

NEWS

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ExxonMobil to Demonstrate Sustainable Solutions Using its Exxtend™ Technology for Advanced Recycling of Plastic Waste at K2022

SPRING, Texas – [ExxonMobil](#) will demonstrate sustainable solutions which include certified-circular polymers made using its [Exxtend™ technology](#) for advanced recycling of plastic waste at the booths of industry-leading machine manufacturers (OEM) at K2022. For full details and directions to these OEM collaborations, visitors should visit ExxonMobil's Information Hub ([North Entrance #11](#)).

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- Exxtend™ technology for advanced recycling can broaden the range of plastics that society recycles
 - Demonstrations include a certified-circular high-performance food-grade pouch with digital traceability from resin to end-product and a hypothetical circular solution that can turn medical products into automotive parts and then back into certified-circular polymers
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Our Exxtend™ technology for advanced recycling of plastic waste, which is used to make certified-circular polymers, can play an increasingly important role in creating a more circular economy for plastics. This technology can broaden the range of plastics that society recycles," said Global Marketing Manager Matt Loach. "With plans to scale our technology at multiple sites around the world, we can help meet customers' growing demand for more certified-circular content."

Certified-circular polymers produced using Exxtend™ technology deliver the same quality and performance as resins made from conventional feedstock, so customers can be confident when using them in existing applications, including food-grade packaging and medical products.

[OEM collaborations](#) at K2022 that demonstrate how certified circular polymers made using Exxtend™ technology can help the value chain develop circular solutions include:

- A five-layer, 45 micron fully recyclable freezer film pouch suitable for high-performance food-grade packaging that incorporates certified-circular [Exceed™ S](#) performance polyethylene (PE) made using Exxtend™ technology for advanced recycling of plastic waste. Working collaboratively with Reifenhäuser (extrusion technology), Twintag (universal unique identifiers), Comexi (flexible packaging printing and converting) and R-Cycle (plastics recycling technology), the pouch includes documentation and digital traceability along the value chain. With one scan, digital traceability tracks certification for compliance; helps eliminate manual data entry; helps identify packaging for recycling in

communities with programs and facilities in place that collect and recycle plastic packaging; and is aligned with open tracing standards. Product information can be exchanged from source to finished product and beyond, supporting the path of a circular economy. Exceed™ S delivers industry-leading combinations of stiffness and toughness while being easy to process. *Discover more at the Reifenhäuser Booth (# Hall 17/C22); R-Cycle Booth Circular Economy Forum Booth (# Hall 16/CE 07); Comexi Booth (# H4 B31); and, the Reifenhäuser Open House on October 20th, 21st, 24th*

- Using certified circular polymers for medical products, and then back again. Krauss Maffei injection molds ExxonMobil™ PP which could be certified-circular polymers to make insulin pen caps. Once the pens have been used, Krauss Maffei sorts and mechanically recycles the disposable caps and converts this valuable waste into a new PP compound. As medical applications require high purity material, the mechanically-recycled PP is used for non-sensitive, durable applications like automotive front end carriers. When those components reach their end of life, hypothetically the automotive part could be used as feedstock for advanced recycling using Exxtend™ technology to produce certified-circular polymers with the same performance as resins made from conventional feedstock. *Discover more at Hall 15/C24 – D24*
- Developed with Reifenhäuser Reicofil, a solution for nonwoven fabrics that delivers lofty thickness, ultra-cushiony cotton-like softness, and a silk-like smooth touch. The solution, which includes certified-circular ExxonMobil™ PP based on Exxtend™ technology for advanced recycling of plastic waste, provides a tailored balance of properties for nonwovens used in premium diapers, pant-type diapers, feminine care and adult incontinence products. *Discover more at the Reicofil Open House on October 21st.*

“To help meet growing demand for certified-circular polymers, ExxonMobil is leveraging existing manufacturing assets to rapidly scale its Exxtend™ technology to process a wide range of plastic waste,” said Vice President for Polyethylene David Hergenrether. “Plans are well underway for up to 500,000 metric tons per year of advanced recycling capacity to be added by year-end 2026 across multiple sites globally.”

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About ExxonMobil

ExxonMobil, one of the largest publicly traded international energy and petrochemical companies, creates solutions that improve quality of life and meet society's evolving needs.

The corporation's primary businesses - Upstream, Product Solutions and Low Carbon Solutions - provide products that enable modern life, including energy, chemicals,

lubricants, and lower-emissions technologies. ExxonMobil holds an industry-leading portfolio of resources, and is one of the largest integrated fuels, lubricants and chemical companies in the world. To learn more, visit [exxonmobil.com](https://www.exxonmobil.com) and the [Energy Factor](#).

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