



Making footwear more sustainable, using ENGAGE™ REN plant-based, high-performing polyolefin elastomers

Manufacturers, brands, retailers and consumers all have a role to play in helping to reduce the impact of climate change. In response, the footwear industry is looking for ways to reduce its products' environmental impact, by producing more sustainable footwear that offers the same high level of performance.

To meet the growing demand for more sustainable solutions for consumer applications, Dow has developed ENGAGE™ REN. Produced using renewable energy and plant-based raw materials, ENGAGE™ REN is made from polyolefin elastomers (POEs) with a smaller carbon footprint than conventional, fossil-based ones.

As well as being more sustainable, ENGAGE™ REN offers all the usual benefits of the ENGAGE™ range of high-performing polymers, including excellent toughness, endurance, resilience, flexibility and consistent quality.

Sustainably sourced plant-based raw materials

ENGAGE™ REN polyolefin elastomers are produced using renewable energy and plant-based raw materials, like used cooking oil, instead of raw materials derived from fossil fuels. These plant-based POEs also:

- Help to protect valuable resources.
- Share the same composition as fossil fuel-based equivalents.
- Don't need to be reformulated.
- Deliver the same performance in the final application – which is critical for reassuring customers.
- Meet the safety standards for equivalent, traditional products.

Combining an improved sustainability profile, with high-quality performance and finish, and a range of grades for maximum design flexibility, ENGAGE™ REN can reduce your carbon footprint and make your solutions stand out from the competition.



The material's production process is certified on a mass balance basis by the International Sustainability Carbon Certification (ISCC).

ENGAGE™ REN can also be used with recycled materials, to create an even more complete sustainable footwear story.

Key benefits

- Lighter foams with equivalent hardness
- Improved abrasion resistance and durability
- Better energy return for midsole foams
- Recyclability for in-process scrap re-use
- Easy colorability

Let's work together to make your footwear more sustainable, without compromising its performance.

About Dow

Dow (NYSE: DOW) combines global breadth; asset integration and scale; focused innovation and materials science expertise; leading business positions; and environmental, social and governance (ESG) leadership to achieve profitable growth and deliver a sustainable future. The Company's ambition is to become the most innovative, customer centric, inclusive and sustainable materials science company in the world. Dow's portfolio of plastics, industrial intermediates, coatings and silicones businesses delivers a broad range of differentiated, science-based products and solutions for its customers in high-growth market segments, such as packaging, infrastructure, mobility and consumer applications. Dow operates 104 manufacturing sites in 31 countries and employs approximately 35,700 people. Dow delivered sales of approximately \$55 billion in 2021. References to Dow or the Company mean Dow Inc. and its subsidiaries. For more information, please visit www.dow.com or follow [@DowNewsroom](https://twitter.com/DowNewsroom) on Twitter.

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