



FOR IMMEDIATE RELEASE
(September 29, 2022)

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Milliken, together with EREMA and PreZero, to showcase technology for producing top-quality recycled polypropylene at K 2022

Ghent, Belgium - Milliken & Company, a diversified global manufacturer with more than 70 locations worldwide, is partnering with European recycling leaders EREMA and PreZero at the upcoming K 2022 show to highlight the use of our Hyperform® HPN® performance additives in recycled polypropylene (rPP) compounds. Our common purpose is to close the loop and advance circularity.

At the October 19-26 trade fair in Düsseldorf, the Austria-based recycling machinery manufacturer EREMA will put its technology on full display. Operating in the EREMA Circonomic Centre in the outdoor area (OA/-CE03) of the fairgrounds, it will present a live recycling demonstration of recycled material supplied by German environmental services provider PreZero (Hall 8B/A57).

For the live recycling demonstration, the partners will use post-consumer waste that was collected by PreZero. Then, in an example of true value-chain collaboration, PreZero leverages its formulation expertise using EREMA recycling technology and Milliken's Hyperform HPN additive to make the recycled PP resins. EREMA's machinery innovation allows PreZero to create odor-optimized premium rPP pellets directly from contaminated post-consumer material.

Hyperform HPN upgrades the recycled PP by improving the material's physical properties while also reducing the cycle time needed to process it. Additionally, these additives also provide for better dimensional control and crystallization stability during the post-injection molding period.

The efficient use of our HPN nucleating agent brings the performance of rPP closer to that of virgin PP. As PreZero likes to say: "With our plastic recycling activities we give seemingly worthless material, waste, a new life."

Milliken's popular Hyperform HPN performance additives contribute to faster, trouble-free production of both virgin and recycled PP and deliver proven energy savings. "UL Environment & Sustainability, a unit of the global UL group, has reviewed and certified that Hyperform HPN enabled an average of 5-8 percent energy savings for firms that injection mold thin-wall PP products," notes Wim van De Velde, Milliken's Global Vice President - Plastic Additives. "This helps users to lower costs, reduce carbon emissions¹ and advance circularity while producing stronger, lighter products. They also enable greater use of rPP in an increased number of applications."

At the K show, EREMA will run its patented INTAREMA® TVEplus® ReGrindPro® extruder system with ReFresher technology, which sets new standards in the recycling of materials that are difficult to process such as heavily printed films and very moist materials. This is made possible through ultrafine filtration, thorough melt homogenization, and high-performance degassing in a single step. The proven basic principle of TVEplus technology is that melt filtration takes place upstream of extruder degassing.

As Michael Heitzinger, Managing Director of EREMA Engineering Recycling Maschinen und Anlagen GmbH, explains: "The efficient interplay of our ReFresher technology with this proven extruder system makes it possible to achieve odor-optimized premium recycled pellets directly from contaminated post-consumer material. The unbeatable combination of top pellet quality and odor optimization opens up completely new application opportunities for recycled plastics."

Visitors to K 2022 can watch a live recycling demonstration in the EREMA Circonomic Centre in the outdoor area (OA/-CE03) on two different days: Friday, October 21, from 10.00 am-1.30 pm, and on Wednesday, October 26, from 2.30-5.30 pm.

For more information on Milliken's purposeful collaborations, visit us in Hall 06/6A27 at the K Show or k2022.milliken.com.

About Milliken & Company

Milliken & Company is a global manufacturing leader whose focus on materials science delivers tomorrow's breakthroughs today. From industry-leading molecules to sustainable innovations, Milliken creates products that enhance people's lives and deliver solutions for its customers and communities. Drawing on thousands of patents and a portfolio with applications across the textile, flooring, specialty chemical and healthcare businesses, the company harnesses a shared sense of integrity and excellence to positively impact the world for generations. Discover more about Milliken's curious minds and inspired solutions at milliken.com and on [Facebook](#), [Instagram](#), [LinkedIn](#) and [Twitter](#).

¹ CO₂ reductions based on reduced cycle time and energy usage are highly dependent on energy source.

About EREMA Engineering Recycling Maschinen und Anlagen Ges.m.b.H.

EREMA Engineering Recycling Maschinen und Anlagen Ges.m.b.H. has its headquarters in Ansfelden near Linz in Austria and specialises in the development and manufacturing of plastics recycling systems and components. Founded in 1983, the company is now the world market leader. Some 7,000 EREMA recycling systems are now in use worldwide. With subsidiaries in the USA, China and Africa, as well as around another 50 representatives on all five continents, the company has a reliable network to implement customised plastics recycling solutions for customers around the world and promote a circular economy. This is based on innovative recycling technologies for the processing of plastics in the form of in-house waste, bottle-to-bottle, post-consumer and fibres to produce recycled pellets that meet the highest quality specifications.

About PreZero

With around 30,000 employees at over 475 locations in Europe and North America, PreZero is an international company in waste and recycling management. The company provides waste disposal, sorting, processing and recycling services, combining all the expertise along the value chain under one roof. PreZero, therefore, positions itself as an innovation driver in the industry with the goal of creating a world in which resources are no longer wasted thanks to closed loops. Zero waste, 100 percent reusable material.

The company is part of the Schwarz Group, one of the leading food retail companies in Germany and Europe. The PreZero Stiftung has its headquarters in Neckarsulm, Baden-Württemberg.

The activities of PreZero pay into the goals of REset Plastic, the Schwarz Group's plastics strategy. The holistic approach ranges from avoidance and design to recycling and removal up to innovation and education. The Schwarz Group has all stages of the material cycle in its own hands: from production and retail to waste and recycling management.

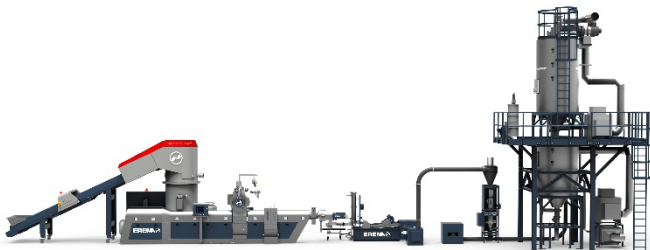
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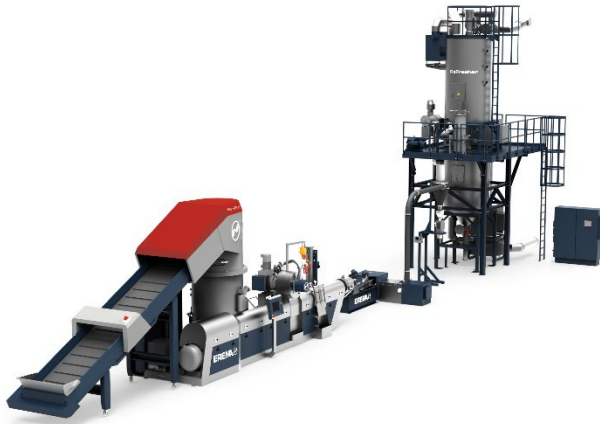
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Milliken, together with EREMA and PreZero, to showcase technology for producing top-quality recycled polypropylene at K 2022. (Photos © 2022 Milliken & Company, all rights reserved, MKPR290)





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