

Avantium collaborates with Gepack and Frubaça on small PEF bottles for functional beverage shots

AMSTERDAM, 29 June 2026, 18:00 hrs CEST – Avantium N.V., a leader in renewable and circular polymer materials, is collaborating with Gepack and Frubaça to explore the use of Avantium's PEF (polyethylene furanoate), marketed as releaf®, in bottles for functional beverage shots. The project brings together partners across the value chain to demonstrate the application of PEF in small-format beverage packaging. Gepack is a Portugal-based manufacturer of PET bottles, and Frubaça is a Portuguese producer of fresh juices and functional beverages. Gepack produces the bottles, which are filled by Frubaça for use in shot-based beverage applications. The collaboration focuses on validating processing and performance across the full production chain, from bottle manufacturing to filling.

PEF is a high-performance, plant-based and recyclable material designed to offer improved barrier performance compared to conventional fossil-based plastics, helping to preserve flavor and quality in beverages. By applying PEF to shot formats, the partners aim to demonstrate how renewable materials can be integrated into existing beverage applications and supply chains. The partners are evaluating how Avantium's PEF performs in this application and how it can support product protection, extend shelf life and contribute to reducing the environmental impact of packaging for functional beverage shots.

"This project demonstrates how new materials can be integrated into existing bottle production processes," comments Lúcia Passos, Head of R&D at Gepack. "Working with Avantium and partners enables us to evaluate PEF in a real application and across the value chain."

Bineke Posthumus, Commercial Director at Avantium, adds: "Collaborating across the value chain is essential to assess how new materials perform in real applications. This project allows us to evaluate PEF across the full process, in a compact and distinctive shot format - a category that combines strong consumer appeal with a real need for high-performance, more sustainable packaging."

About Avantium

Avantium is a pioneering commercial-stage company focused on renewable & circular polymer materials. Avantium develops and commercializes innovative technologies for the production of materials based on sustainable carbon feedstocks, i.e. carbon from biomass or carbon from the air (CO₂). The most advanced technology is the YXY® Technology that catalytically converts plant-based sugars into FDCA (furanicarboxylic acid), the key building block for the sustainable plastic PEF (polyethylene furanoate). PEF is known under the brand name releaf®, an EU registered trademark of Avantium. Avantium has successfully demonstrated the YXY® Technology at its pilot plant in Geleen, the Netherlands, and is in the process of starting the world's first commercial plant



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Press release

for FDCA in Delfzijl, the Netherlands. Avantium works in partnership with like-minded companies around the globe to develop revolutionary renewable chemistry solutions from invention to commercial scale.

Avantium's shares are listed on Euronext Amsterdam and Euronext Brussels (symbol: AVTX). Avantium is incorporated in the Euronext Amsterdam SmallCap Index (AScX). Its offices and headquarters are in Amsterdam, the Netherlands.

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