

## Avantium Partners with the Bottle Collective to Launch Innovative Fiber Bottles

AMSTERDAM, 19 May 2025, 07:00 hrs CET – Avantium N.V., a leading company in renewable and circular polymer materials, is pleased to announce its partnership with the Bottle Collective, aimed at showcasing fiber bottles made from Dry Molded Fiber (DMF) technology. Avantium's novel, plant-based polymer PEF (polyethylene furanoate) will be integrated into the Dry Molded Fiber bottle process, enhancing the barrier performance and sustainability of the bottles.

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The Bottle Collective was launched in 2023 by PA Consulting, the global innovation and transformation consultancy, and PulPac, the Swedish R&D and Intellectual Property company behind the proprietary production process of Dry Molded Fiber. PulPac's Dry Molded Fiber technology uses renewable pulp and cellulose resources to produce low-cost, high-performance fiber-based packaging. The process uses less CO<sub>2</sub> than plastic and conventional wet molding options, with almost no water used in manufacturing. In 2024, LogoPlaste, global provider of innovative and sustainable rigid packaging solutions, joined as a member of the Bottle Collective. LogoPlaste specializes in injection molding and blowing. The Bottle Collective has already developed the first functioning prototypes. Global leading brand partners including Diageo, Opella, and Haleon have also joined the Bottle Collective to continue developing and scaling fiber bottles.

Avantium will provide PEF to the Bottle Collective for injection molding and blowing liners for the fiber bottles. PEF is a 100% plant-based, fully recyclable polymer with superior barrier properties, making it an ideal material for sustainable packaging solutions. Beyond its sustainable packaging benefits, Avantium's PEF has superior barrier properties, protecting the taste and fizziness of the packaged drinks and leading to a longer shelf life. PEF also has higher mechanical strength than conventional plastics, enabling thinner packaging and thereby reducing the amount of material required.

PA Consulting is working to scale up Dry Molded Fiber packaging and bring the bottles to global customers. Keith Thornley, commercial lead for Dry Molded Fiber collectives at PA Consulting, comments: "We're pleased to have Avantium join us as a technical partner in the Bottle Collective. Avantium's participation in the Bottle Collective aligns perfectly with our mission to fundamentally change the environmental footprint of packaging."

Paulo Correia, Chief Technology Officer at Logoplaste, states: "Avantium's innovative, plant-based polymer PEF offers exceptional sustainability and high-performance benefits for our Dry Molded Fiber bottles. This collaboration highlights our commitment to pioneering sustainable packaging solutions and leveraging cutting-edge materials like PEF to meet the evolving needs of our partners."

Bineke Posthumus, Director Business Development at Avantium, says: "Together with global brand partners such as Opella, Diageo, and Haleon, the Bottle Collective can fast-track the development of world-first Dry Molded Fiber bottles. Our polymer PEF can play a crucial role in enhancing the sustainability and performance of these bottles, offering superior barrier properties and mechanical strength. This partnership aligns perfectly with Avantium's mission to create innovative, plant-based solutions that contribute to a circular economy."

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#### About PA

We believe in the power of ingenuity to build a positive human future. As strategies, technologies, and innovation collide, we create opportunity from complexity. Our diverse teams of experts combine innovative thinking and breakthrough technologies to progress further, faster. Our clients adapt and transform, and together we achieve enduring results. We are over about 4,000 strategists, innovators, designers, consultants, digital experts, scientists, engineers, and technologists. And we have deep expertise in consumer and manufacturing, defence and security, energy and utilities, financial services, government and public services, health and life sciences, and transport. Our teams operate globally from offices across the UK, Ireland, US, Nordics, and Netherlands.

Discover more at [paconsulting.com](https://paconsulting.com) and connect with PA on [LinkedIn](#) and [X](#). PA. Bringing Ingenuity to Life.

#### About PulPac

PulPac is the home of Dry Molded Fiber – a pioneer in packaging solutions, pushing the boundaries of what's possible to do with cellulosic fibers. PulPac aims to replace single-use materials by making its cutting-edge fiber-forming technology available to the world. By bringing together all parts of the packaging industry in an ecosystem of changemakers, PulPac builds on existing businesses and infrastructure – enabling fast scaling of responsibly produced packaging where sustainability is not just a choice but a fundamental principle.

#### About Logoplaste

From the very beginning, LOGOPLASTE has innovated constantly to reduce waste, increase efficiency, and create a sustainable business model that can weather revolutionary change and thrive.

Our Wall to Wall, embedded manufacturing model has proven itself as a smarter way of doing business that benefits our customers and the world. Our plants double as flourishing idea labs that are lowering CO<sub>2</sub> emissions, ending packaging waste, and making the world a better place.

Every day, we rebel against the norm and reinvent what's been done before so that we can lead the changes our industry must make. We're dedicated to working together—with our clients and our competitors, our local communities and governments—to build a better, healthier, sustainable future for the next generation.

This legacy is more than words on a page. It is our duty.

#### About Avantium

Avantium is a pioneering commercial-stage company focused on renewable & circular polymer materials. Avantium develops and commercialises innovative technologies for the production of materials based on sustainable carbon feedstocks, i.e. carbon from biomass or carbon from the air (CO<sub>2</sub>). The most advanced technology is the YXY<sup>®</sup> 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<sup>®</sup>, an EU registered trademark of Avantium. Avantium has successfully demonstrated the YXY<sup>®</sup> Technology at its pilot plant in Geleen, the Netherlands, and is in the process of starting the world's first commercial plant 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.



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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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