

Avantium Advances PEF-Based Spacer Fabric For Auping Mattresses With Consortium Of Textile Innovators

AMSTERDAM, 24 April 2025, 18:00 hrs CET – Avantium N.V., a leading company in renewable and circular polymer materials, is pleased to announce significant progress in its collaboration with leading textile innovators to develop PEF (polyethylene furanoate)-based spacer fabric for Auping mattresses. PEF is a plant-based, fully circular polymer material. Recently, a consortium comprising of Auping, Muller Textiles, ANTEX and Monosuisse has successfully developed a PEF-based spacer fabric, a key component in Auping mattresses.

Spacer fabric is an innovative material known for its breathability, cushioning, and versatility. Unlike traditional 2D fabrics, spacer fabric is constructed by joining two separate layers of fabric with monofilaments, creating a breathable 3D "microclimate" between the layers. This unique structure allows heat and vapor to escape from the body while enabling cool air to circulate through the permeable layer, ensuring optimal temperature control and maximum air circulation.

Over the course of 2024, Auping, renowned for its commitment to sustainable innovations in premium sleeping solutions, has been working closely with Muller Textiles, a leader in fabric development. Muller Textiles has been developing and supplying PEF-based spacer fabric, while ANTEX and Monosuisse have supplied yarns to Muller Textiles. The consortium has completed the initial proof of concept study and is now progressing towards prototype development. Simultaneously, efforts are being directed towards scaling up the development and production process.

Pavan Kumar Manvi, Technical Application Manager at Avantium, says: "We are proud to collaborate with Auping, Antex, Monosuisse, and Muller Textiles to drive innovation in the textile industry. This partnership underscores our collective commitment to minimizing the environmental footprint of textile production. By harnessing Avantium's innovative technology and the combined expertise of our partners, we can make meaningful progress towards a more sustainable textile industry."

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 (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 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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Press release

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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