

News release

## **Textiles Recycling Expo 2025: BASF and trinamiX present solutions supporting textile circularity**

- trinamiX showcase its mobile solution for reliable textile identification, including the new handheld spectrometer trinamiX PAL Two
- BASF presents loopamid®, the recycled polyamide 6 based entirely on textile waste
- Joint presence highlights solutions enabling textile sorting, recycling, and circular economy

**May 22, 2025 – Ludwigshafen, Germany; Brussels, Belgium** – trinamiX GmbH, a leading provider of mobile spectroscopy solutions and a subsidiary of BASF, and BASF SE with loopamid®, a recycled polyamide 6 entirely made from textile waste, will jointly present their solutions for textile sorting and circularity at the Textiles Recycling Expo at booth 2341 in hall 3. The event takes place in Brussels, Belgium from June 4 to 5, 2025. Together, they will showcase approaches to textile circularity – from reliable material identification to the use of recycled polyamide 6 for high-performance textiles.

### **loopamid: Polyamide 6 made entirely from textile waste**

loopamid is a recycled polyamide 6 that is entirely based on textile waste. “The technology behind loopamid allows textile-to-textile recycling for polyamide 6 in a wide variety of fabric blends, including those with elastane,” said Dag Wiebelhaus, Head of Innovation Management at BASF’s Monomers division and loopamid project lead. BASF recently announced the start-up of the world’s first commercial loopamid plant. The production facility at the Caojing site in Shanghai, China, has an annual capacity of 500 metric tons and utilizes industrial textile waste from textile manufacturing and post-consumer waste for producing loopamid. The feedstock includes cutting scraps, defective cuts, offcuts and other production textile waste from the textile industry. These materials are collected and provided to BASF by partners. End-of-life garments made from polyamide 6 and other textile products can also be utilized for the production of loopamid. All these waste materials are challenging to recycle because they typically consist of a mixture of different fibers and materials as well as dyes and additives. Additionally, for post-consumer waste recycling, buttons, zippers and accessories must be removed in advance. BASF works closely with partners and customers to accelerate the development of collection and sorting systems.

### **trinamiX: Textile identification made easy**

trinamiX Mobile Near-Infrared (NIR) Spectroscopy Solution enables fast, reliable and non-destructive identification of a wide range of textiles and blends – such as polyester, cotton, wool or polyamide including PA 6 and PA 6.6. BASF has utilized trinamiX technology to qualify PA 6 waste streams for their loopamid® product.

The system features a robust, portable NIR spectrometer, accompanied by an app that leverages sophisticated cloud-based data analysis, along with a customer portal for managing results, downloading reports, and exporting data.

To meet the specific needs of recyclers, trinamiX offers a flexible solution that accommodates different workflows. Users can choose between a compact handheld device for spot checks or a semi-automated setup that can be seamlessly integrated into a sorting table, allowing for automatically triggered scans for enhanced efficiency.

### **trinamiX PAL Two – Next generation handheld spectrometer**

Visitors will also experience trinamiX PAL Two, the latest generation of trinamiX's handheld spectrometer. Designed for even more convenient, single-handed operation, it features a built-in display for direct, on-device results – making it ideal for use in various environments and industries.

“We're excited to join the Textiles Recycling Expo for the first time and meet the vibrant community. Our innovative solution promotes greater transparency and empowers informed decision-making throughout the textile value chain by providing reliable on-the-spot identification. We are making this accessible to everyone dedicated to creating a more sustainable future for textiles. Together, we can drive positive change and transformation in our industry!”, says Adrian Vogel, Team Lead Circular Economy at trinamiX.

More information: <https://trinamixsensing.com/textiles>

### **About Textiles Recycling Expo 2025**

#### **loopamid® and trinamiX at Textiles Recycling Expo**

Date: June 4-5, 2025

Location: Brussels Expo, Belgium

Booth location: 2341, hall 3

### **About trinamiX**

trinamiX GmbH develops cutting-edge biometric and mobile NIR spectroscopy solutions, which are used in both consumer electronics and industrial designs. The company's products enable humans and machines to better capture data with the goal of understanding the world around us. This results in improved decision making as well as stronger biometric security. trinamiX, based in Ludwigshafen (Germany), was founded in 2015 as a wholly owned subsidiary of BASF SE. The company employs over 200 people worldwide and holds more than 800 patents and patent applications.

Web: [www.trinamiXsensing.com](http://www.trinamiXsensing.com)

LinkedIn: <https://www.linkedin.com/company/trinamixsensing/>

### **About loopamid®**

With loopamid, BASF has developed an innovative solution to improve circularity in the fashion industry and recycle polyamide 6 textile waste. Due to its capability to tolerate all fabric mixtures, like PA6 and elastane, the cutting-edge technology behind loopamid allows textile-to-textile recycling of post-industrial and post-consumer textile waste. The fibers and materials can be recycled over multiple cycles. At the same time, the material characteristics are identical to those of conventional virgin polyamide. loopamid is certified to the Global Recycled Standard (GRS). Further information on [www.loopamid.com](http://www.loopamid.com) or follow us on LinkedIn: <https://www.linkedin.com/showcase/101097716>

### **About BASF**

At BASF, we create chemistry for a sustainable future. Our ambition: We want to be the preferred chemical company to enable our customers' green transformation. We combine economic success with environmental protection and social responsibility. Around 112,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises, as core businesses, the segments Chemicals, Materials, Industrial Solutions, and Nutrition & Care; our standalone businesses are bundled in the segments Surface Technologies and Agricultural Solutions. BASF generated sales of €65.3 billion in 2024. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the United States. Further information at [www.basf.com](http://www.basf.com)

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