

News release

Flexible differentiation between PET-A and PET-G: trinamiX expands Mobile NIR Spectroscopy Solution with new plastic application

- trinamiX expands the scope of its innovative handheld solution: In addition to the on-the-spot identification of more than 30 plastic types, PET-A can now also be distinguished from PET-G.
- First public live demonstrations at the K trade fair in Duesseldorf: Prospective buyers will receive a trade show discount at the BASF booth for orders in the newly launched web shop.

13 October 2022 – Ludwigshafen – trinamiX, a leading provider of mobile spectroscopy and a wholly-owned subsidiary of BASF, now supports the flexible differentiation between PET-A and PET-G with its Mobile NIR Spectroscopy Solution. As such, the handheld solution for on-the-spot identification of more than 30 different plastics is supplemented by a new application, which provides information about the type of a PET sample.

Amorphous polyethylene terephthalate (PET-A for short) is one of the most important thermoplastics. PET-A is a popular material for recyclable packaging of food, cosmetics, or hygiene products. PET-G is modified PET that has been combined with glycol. As a result, PET-G features a higher transparency than PET-A, which remains stable even after heating. In addition, molten PET-G has a lower viscosity. These properties favor specific applications in the areas of packaging, 3D printing and visible parts, for example.

The clean separation of PET-G and PET-A is important for several reasons: First, only pure materials can be completely recycled. Due to different melting ranges, recycling a combination of PET-A and PET-G is difficult. In addition, mixtures have a negative effect on the desired properties, such as the temperature stability. Ultimately, there is also an economic component: Pure PET-G usually achieves higher prices on the market than PET-A.

"In view of the increasingly complex waste streams, recycling companies are facing major challenges when it comes to the homogeneous processing of materials in the plants. Therefore, we are working closely together with our customers and partners to continuously expand our offering," explains Adrian Vogel, Manager Sales and Business Development Spectroscopy Solutions at trinamiX. "We offer a solution that enables decentralized sorting and quality checks, delivering added value wherever industrial solutions are not viable."

The new application will be presented to the public at the K trade fair in Duesseldorf (19 – 26 October 2022). Trade show visitors are cordially invited to experience live demonstrations of the solution at the BASF booth (C21/D21 in Hall 5). trinamiX is also launching a new web shop for simplified ordering, which can be accessed under www.plasticsshop.trinamiXsensing.com. Prospective buyers receive a discount code at the trade show.

About trinamiX's Mobile NIR Spectroscopy Solution

trinamiX's solution combines robust hardware with intelligent data analysis and a mobile app. NIR spectroscopy is a proven technology that trinamiX has integrated into a portable format for on-site analysis. In doing so, trinamiX relies on cloud-based data processing, which ensures continuous development of the solution – there is no need to replace hardware. For more information, visit: www.trinamiXsensing.com/plastics

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 300 patents and patent applications.

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