

Press Release

KRAIBURG TPE Enhances Smart Bottle Functionality with Advanced TPE Solutions

Kuala Lumpur, April 2025

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KRAIBURG TPE Enhances Smart Bottle Functionality with Advanced TPE Solutions

Breaking away from the traditional water bottle mold, smart bottles use advanced technology to maintain hydration levels throughout the day, promoting better hydration habits. [Thermoplastic elastomers \(TPEs\)](#) enhance the functionality of these bottles by ensuring better grip, safety, and long-lasting performance.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomers, delivers these benefits with its FC/AD/PP series, an innovative material solution designed for sustainability, manufacturing efficiency, and compliance with global food contact regulations.

Solution for streamlined and optimized manufacturing

KRAIBURG TPE's FC/AD/PP series optimizes flow properties, enabling efficient and precise manufacturing.

Featuring a hardness range of 30 to 90 Shore and designed for excellent adhesion to polypropylene (PP), it ensures the reliability and functionality of daily-use bottles.

The material is also easy to process using injection molding, extrusion, and 3D printing.

Solution for food contact-safe use

Meeting strict safety standards, including Regulation (EU) No 10/2011, US FDA CFR 21, GB 4806.7-2023, EN71-3, as well as REACH, SVHC, and

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RoHS regulations, KRAIBURG TPE's FC/AD/PP series is [food-contact safe](#) for use in smart drinking bottles.

It is also free from animal ingredients, heavy metals, phthalates, bisphenol A, and latex, allowing for safe use in packaging materials.

Solution for sustainable and stylish designs

The FC/AD/PP series is a [sustainable solution](#) that advances environmental responsibility through the ISCC PLUS mass-balance approach, ensuring traceability and reducing environmental impact in response to the growing demand for eco-friendly products.

Moreover, KRAIBURG TPE offers in-house pre-coloration and customization, providing a wide variety of colors to meet different design requirements, for flexibility in designing innovative drinking bottles.

To learn how to offer a more sustainable alternative without compromising on quality or performance:

[Visit KRAIBURG TPE IN CHINAPLAS 2025](#)

Meet us in Hall 17, booth no: Q71 to explore our innovative and sustainable TPE solutions and connect with industry experts.

Register at <https://forms.office.com/e/dkNkW7mN4a> for your FREE Visitor Pass and Booth appointment! Hurry - availability is limited.

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For high-resolution photography, please contact Bridget Ngang
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KRAIBURG TPE (www.kraiburg-tpe.com) is a global manufacturer of custom thermoplastic elastomers. KRAIBURG TPE was founded in 2001 as an independent business unit of the KRAIBURG Group and is now the industry's competence leader in the field of TPE compounds. The company's goal is to provide safe, reliable and sustainable products for customer applications. With more than 698 employees worldwide and production sites in Germany, the USA and Malaysia, the company offers a large product portfolio for applications in the automotive, industrial and consumer goods industries, as well as for the strictly regulated medical sector. The established THERMOLAST®, COPEC®, HIPEX® and For Tec E® product lines are processed by injection molding or extrusion and offer manufacturers numerous advantages not only in processing but also in product design. KRAIBURG TPE is characterized by its innovative strength, global customer orientation, customized product solutions and reliable service. The company is ISO 50001 certified at its headquarters in Germany and holds ISO 9001 and ISO 14001 certifications at all its sites worldwide.