

## Press Release

**KRAIBURG TPE's Materials Enhance Usability of Smart Water Dispensers**

Kuala Lumpur, May 2025

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### **KRAIBURG TPE's Materials Enhance Usability of Smart Water Dispensers**

Smart water dispensers integrate water quality monitoring with advanced filtration technologies (such as reverse osmosis and UV sterilization) to provide personalized hydration recommendations, helping users maintain optimal hydration levels.

The dispenser's intelligent design improves convenience and health benefits, offering greater assurance, particularly for [consumers](#) with busy lifestyles.

Materials such as thermoplastic elastomers (TPEs) are employed to enhance the dispenser's functionality by ensuring superior durability and an improved overall user experience.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomers, offers these advantages through its innovative FC/AD/PP series, a TPE material solution designed to enhance manufacturing efficiency, and to comply with [global food contact regulations](#).

#### **Effortless processing; endless possibilities**

KRAIBURG TPE's FC/AD/PP series features a hardness range of 30 to 90 Shore A and is well-suited for both injection molding and extrusion processes, ensuring a smooth and efficient production.

The FC/AD/PP series also offers excellent adhesion to PP and optimized flow properties, making it an ideal material for manufacturing smart water dispensers.

In addition, the TPE series supports 3D printing of logos and branding on smart water dispensers, allowing manufacturers to achieve personalized customization, reduce costs for additional brand printing, and enhance brand recognition.

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### **Responsive touch with a flawless design**

The FC/AD/PP series also allows for an excellent tactile surface for smart water dispensers, enhancing user interaction for a more intuitive and satisfying experience. Whether the user of a smart water dispenser is pressing buttons, adjusting settings, or receiving notifications, the smooth and responsive feel improves usability and makes the device more engaging.

Additionally, the option for in-house pre-coloration ensures consistent, high-quality finishing, enabling personalized designs and better brand alignment. This capability also shortens production cycles, maintains color uniformity, and enhances the product's visual appeal, giving it a more competitive edge in the market.

### **Safety-approved TPE materials for smart water dispensers**

KRAIBURG TPE's FC/AD/PP series is designed to meet stringent safety standards for [food-contact applications](#), including Regulation (EU) No 10/2011, US FDA CFR 21, GB 4806.7-2023, EN71-3, and complies with REACH, SVHC, and RoHS regulations. These certifications ensure that smart water dispenser components made from this material are fully compliant with safety requirements, offering peace of mind to consumers.

Furthermore, the FC/AD/PP series is free from animal-derived ingredients, heavy metals, phthalates, bisphenol A, and latex, ensuring it is safe for use in food-contact packaging. As a result, it is an ideal choice for smart water dispensers, offering both safety and reliability in food-contact components, while meeting the high-performance needs of modern, connected devices.

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For high-resolution photography, please contact Bridget Ngang  
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KRAIBURG TPE ([www.kraiburg-tpe.com](http://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.