Press Release

How Can Smart Window Cleaner Manufacturers Improve Durability, Comfort, and Product Design? KRAIBURG TPE Delivers Advanced Material Solutions for Next-Generation Cleaning Devices

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Time constraints in housekeeping are eased by smart technologies that improve domestic and commercial hygiene by maximizing cleaning coverage. Smart window cleaners are a different beast. At their most basic, they are equipped with artificial intelligence, sensors, ultrasonic spray, and anti-dropping mechanisms for efficient cleaning of large windows and window panels installed in hard-to-reach areas, requiring less time and effort while improving user safety. As functionality, durability, and user experience are essential, advanced materials, including thermoplastic elastomers (TPEs), help ensure the equipment continues to perform reliably in a wide range of indoor and outdoor environments.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomers and customised material solutions, offers its THERMOLAST® K Series, which delivers the mechanical properties, aesthetics, and design versatility required for smart window cleaners to provide efficient, hassle-free cleaning.

Premium tactility and soft touch for lasting performance

THERMOLAST® K Series delivers a soft, velvety surface to exterior and contact components of smart window cleaning technology, including side bumpers, handle grips, sealing gaskets, charging port covers, rubber feet, drive wheel treads, and button covers, while providing excellent abrasion and scratch resistance, as well as resistance to skin oils, sunscreen, and sebum enabling them to maintain their appearance and performance throughout the product's service life.

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Superior adhesion and optimized processing advantage

THERMOLAST® K Series exhibits excellent adhesion to PA6, PA12, PC, ABS, PC/ABS, ASA, and SAN, allowing manufacturers to create integrated components through injection molding without requiring secondary assembly processes, and enabling stable processing and consistent part quality. This improves manufacturing efficiency while enabling more sophisticated product designs. The material is particularly suitable for applications requiring structural rigidity and ergonomic performance, including handles, protective bumpers, charging port covers, and functional buttons.

Assurance for safety compliance and global supply

THERMOLAST® K Series compounds comply with key industry requirements, including UL 94 HB, ISO 10993-10 (skin irritation), and halogen content (chlorine + bromine) below 900 ppm. These properties make the material suitable for smart consumer products where safety, reliability, and user comfort are design priorities.

The specialized compounds are produced at KRAIBURG TPE's manufacturing sites in Germany, Malaysia, and the United States, ensuring a reliable global supply for international product development programs.

Sustainability from the get-go

At KRAIBURG TPE, sustainability drives our innovation. Our portfolio includes bio-based TPEs and compounds with post-consumer (PCR) and post-industrial (PIR) recycled content. Selected TPEs are certified under GRS and ISCC PLUS. We also provide Product Carbon Footprint (PCF) data upon request to support sustainability decisions.

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We proudly earned the EcoVadis Gold Medal in 2025 and are committed to the Science Based Targets initiative (SBTi), aligning our goals with global climate action.

From reducing emissions to increasing circularity, our sustainable TPEs deliver reliable performance and are available worldwide to support your applications while advancing your sustainability goals.

Get in touch today to learn how KRAIBURG TPE can support your sustainability and product development journey.

Discover More with TPE: Combining excellent adhesion to engineering plastics, superior wear resistance, soft-touch comfort, optimized processing, and regulatory compliance, THERMOLAST® K Series enables OEMs and product designers to develop durable, reliable, and premium smart devices like earbuds, robotic applications and so forth.

Disclaimer: The applications mentioned are illustrative of material capabilities only. Final product suitability and regulatory compliance must be assessed and validated by the customer.



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For high-resolution photography, please contact Bridget Ngang (bridget.ngang@kraiburg-tpe.com , +6 03 9545 6301).

Information for members of the press:

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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 718 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

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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.