Press Release

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How Can Material Selection Improve Car ISOFIX Safety? KRAIBURG TPE's THERMOLAST® K Delivers Reliable Performance with Enhanced Comfort
Kuala Lumpur, November 2026

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As vehicle safety standards continue to evolve, automotive OEMs, Tier 1 suppliers, product designers, and R&D engineers are looking beyond basic child seat compatibility. Reliable performance, long-term durability, passenger comfort, and manufacturing efficiency have become equally important considerations. ISOFIX components such as brackets, locking systems, and protective housing are exposed to continuous mechanical stress, temperature fluctuations, and moisture. As a result, selecting the right material has become a critical part of ISOFIX component development.

KRAIBURG TPE, a global manufacturer of TPE compounds for automotive, consumer, industrial, and medical applications, offers the THERMOLAST® K series with mechanical and surface properties suited for automotive ISOFIX elements.

Why Are Durability and Material Compatibility Important for Car ISOFIX Elements?

THERMOLAST® K series provides excellent mechanical stability and processability for ISOFIX components. It supports reliable integration with common automotive polymers such as PP, PC, ABS, PC/ABS, ASA, and SAN, and is suitable for insert molding with metal parts. The material also offers a soft-touch surface and controlled emissions for interior applications.

Standards-compliant with automotive interior application

In addition, automotive manufacturers increasingly require materials that comply with stringent automotive interior and safety standards.

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THERMOLAST® K series for automotive ISOFIX elements meets stringent interior and safety requirements, including standards for fogging, odor, flammability, lightfastness, and automotive material performance, such as DIN 75201-B, VDA 270 B3, 49 CFR §571.302 (FMVSS 302), DIN EN ISO 105-B06 Method 3, VW 50123, BMW GS 93042, Mercedes-Benz DBL 1262, and UL 94 HB.

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.

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： From car door sill to car mirror gasket, TPE materials enable safer, more comfortable, and intelligently designed automotive components.

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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(Photo: © 2026 KRAIBURG TPE)

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

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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 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.