

Press Release

KRAIBURG TPE's THERMOLAST® K Gives a Soft Edge to Smart Learning Devices

Kuala Lumpur, June 2026

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KRAIBURG TPE's THERMOLAST® K Gives a Soft Edge to Smart Learning Devices

Artificial intelligence (AI) is changing the game in educational toys, turning them into adaptive, interactive companions such as interactive robots, companion-style toys, AI-powered storytelling devices, and voice-enabled plush toys that respond to a child's pace, interests, and performance in real time. Designed for frequent, close interaction, these products benefit from the soft-touch features of materials like thermoplastic elastomers (TPEs), which provide a comfortable, skin-friendly feel and make toys easier to handle. The tactile quality of TPEs as AI educational toys materials encourages longer use for effective learning.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomers (TPEs) and customized material solutions for various industries, offers THERMOLAST® K soft-touch TPE materials, which deliver a velvety soft surface along with robust mechanical performance for smart educational toy components such as grips, buttons, housings, and design elements.

Raising the bar on tactile performance

THERMOLAST® K delivers a soft, velvety surface in AI-enabled educational toys and resists sebum, sunscreen, and grease, keeping them comfortable, clean, and tactile for users. This TPE for educational toys also feature abrasion and scratch resistance to preserve surface quality after repeated use, while their optimized mechanical properties ensure durable, long-lasting components.

Superior material adhesion for design flexibility

THERMOLAST® K compounds exhibit excellent TPE adhesion to commonly used engineering plastics such as PA6, PA12, PC, ABS, PC/ABS, ASA, and

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SAN, enabling manufacturers to create reliable multi-material components through [injection molding](#) and integrate the materials efficiently into modern production processes.

Available in natural colors, THERMOLAST® K is ideal for key design elements in interactive toys, including soft-touch push buttons and switches, protective housings for electronic modules, comfortable grips for [handheld devices](#), and other functional parts and accents.

Meeting safety benchmarks

THERMOLAST® K, a TPE for smart toys, comply with material safety standards, including UL 94 HB classification, and have been tested according to ISO 10993-10, confirming their suitability for applications involving regular skin contact. With a halogen content (chlorine + bromine) below 900 ppm, the compounds ensure safety for use in modern consumer products.

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.

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

Discover More with TPE: Whether it's [robotic dog](#) or [robot applications](#), KRAIBURG TPE delivers safe, durable, and user-friendly solutions for every day.

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



(Photo: © 2026 KRAIBURG TPE)

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 700 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.