

Press Release

KRAIBURG TPE Offers Sustainable and Durable Toolbox Handle Solutions with Advanced TPEs

Kuala Lumpur, September 2025

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KRAIBURG TPE Offers Sustainable and Durable Toolbox Handle Solutions with Advanced TPEs

In emergencies, every second—and every tool—counts. During a natural disaster, household mishap, or power outage, a robust toolbox is indispensable. It keeps essential tools accessible, organized, and protected—always ready for action. With growing awareness of disaster risks and supply disruptions, more people are adopting a prepper mindset, that is, planning ahead to stay self-sufficient in uncertain times. For preppers, a durable toolbox with components made from advanced materials like thermoplastic elastomers (TPEs) is ideal for staying functional under pressure and ready when needed.

KRAIBURG TPE, a global manufacturer of custom thermoplastic elastomers, offers material solutions that meet the growing demand for heavy-duty performance and sustainability across a wide range of applications. Introducing the THERMOLAST® R - RC/AD/PA/AP series for the Asia-Pacific market, this advanced TPE solution features high recycled content and optimized mechanical properties, enabling manufacturers to develop high-performance products while meeting strict quality standards and low carbon footprint targets.

High performance with reduced environmental impact

The THERMOLAST® R - RC/AD/PA/AP series contains over 50% recycled raw materials (hardness-dependent), combining post-industrial recycled (PIR) and post-consumer recycled (PCR) content, advancing manufacturers' [sustainability goals](#). Complementing its environmental benefits, the TPE compounds offer a hardness range of 40–90 Shore A, providing an optimal balance of flexibility and durability. The material bonds strongly with polyamide (PA), particularly PA6 and PA6.6, enhancing the tensile strength of toolbox handles for reliable, heavy-duty use by improving resistance to breakage,

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wear, and abrasion, ensuring consistent performance even under tough conditions. This TPE series is also ideal for gardening and power tool handles, over-molded housing for laser demarcation devices, as well as functional and design elements.

Safe handling with non-slip surface

The [THERMOLAST® R - RC/AD/PA/AP series](#) provides a non-sticky surface and enhanced grip. It reduces friction between the hand and handle, offering improved comfort and minimizing the risk of slippage even during extended use or when hands are sweaty, thus, promoting safer handling of tools and equipment. While the series contains recycled content, it still guarantees a clean, smooth, and durable finish for toolbox handle construction. The TPE compounds are also available in a wide range of colors, including customizable black options to match product aesthetics or brand identity.

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.

***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
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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.