

Press Release

KRAIBURG TPE Steps Up Prosthetics with TPE Solutions

Kuala Lumpur, June 2026

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KRAIBURG TPE Steps Up Prosthetics with TPE Solutions

Medical prosthetics have come a long way, combining advanced materials, biomechanics, and digital technology to restore mobility and improve quality of life for users. From liners and cushioning elements to flexible joints and interface components, advanced prosthetic materials like TPE deliver a soft, skin-like feel, and long-lasting durability in prosthesis, resulting in greater comfort and efficiency.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomers (TPEs) and customized material solutions, offers Medical Grade TPE compounds that meet the stringent standards for medical elastomer materials and high-performance demands of prosthetic components.

Boost of comfort and flexibility

KRAIBURG TPE's TPE for prosthetics is possible to feature an ultra-soft hardness and an impressive elongation at break of 1000% and above, allowing the prosthetics to adapt to movement while maintaining structural integrity. This flexibility enhances user comfort, particularly in applications such as liners, soft interfaces, and cushioning elements. The soft TPE material is ideal for prosthetic components that come into [direct contact with the human body](#) and require properties that mimic the softness and elasticity of natural tissue.

Low density yet robust performance

KRAIBURG TPE's compounds are materials that have low density, enabling seamless thermoplastic elastomer prosthesis designs that reduce user fatigue during prolonged wear. In addition, the materials offer excellent surface feel and elasticity, delivering a soft-touch, skin-like sensation that enhances wearer comfort. Their elastic properties allow for flexible movement and

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adaptive fit, helping prosthetic components better mimic natural motion while maintaining durability and structural integrity.

Consistency and efficiency with precision manufacturing

KRAIBURG TPE's material compounds are optimized for injection molding, allowing manufacturers to produce complex shapes and details with high consistency and efficiency. The injection molding TPE's excellent flow properties ensure precise replication of parts to meet the requirements for customized prosthetic components. The compounds are available in translucent colors, offering design flexibility and enabling functional features such as visual inspection or integration with other materials.

Proven standards-compliant performance

KRAIBURG TPE's flexible TPE compounds are tested according to internationally recognized standards, including DIN ISO 48-3 for hardness, DIN EN ISO 1183-1 for density, and DIN 53504 / ISO 37 for tensile properties and elongation, with production processes aligned to ISO 9001 quality management standards, giving manufacturers confidence in [material reliability across applications](#).

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: Whether it's [otoscope](#) or [ultrasound device](#), 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

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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.