

Press Release

KRAIBURG TPE Pumps Up Reliability in AED Application with Medical-Grade TPE

Kuala Lumpur, July 2026

Page 1 of 4

KRAIBURG TPE Technology
(M) Sdn Bhd
Lot 1839 Jalan KPB 6
Kawasan Perindustrian Balakong
43300 Seri Kembangan, Selangor,
Malaysia

Phone +60 3 9545 6393

Info-asia@kraiburg-tpe.com
www.kraiburg-tpe.com

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Automated external defibrillators (AEDs), a portable, lightweight electronic device designed to save the life of someone experiencing sudden cardiac arrest, require high standards of reliability and safety. Materials used in AED components must comply with strict medical regulations while delivering consistent performance. Thermoplastic elastomers (TPEs) are well suited for AED applications due to their durability, flexibility, chemical resistance, and insulating properties, making them ideal for grips, cables, seals, and protective housings.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomer materials and customized material solutions offers its medical TPE compounds as a specialized solution for healthcare and medical device applications in the Asia Pacific. For AED applications, these compounds meet stringent performance and safety requirements.

Global standards approved for medical applications

[THERMOLAST® H compounds](#) comply with ISO 10993-5 and GB/T 16886.5 cytotoxicity standards, ensuring biocompatibility for devices that may come into contact with users, and meet Regulation (EU) No 10/2011 and US FDA CFR 21 raw material requirements. The compounds are sterilizable via autoclave at 121°C and ethylene oxide (EtO) processes and are free from animal-derived ingredients, heavy metals and toxic substances.

Strong adhesion for multimaterial design

Medical TPE materials offer excellent adhesion to a wide range of polar thermoplastics, including polycarbonate (PC), acrylonitrile butadiene styrene (ABS), PC/ABS blends, ASA, SAN, PET, PETG, and polystyrene (PS). This broad adhesion enables the design of integrated components such as soft-touch grips, protective housings, and functional seals with strong, reliable

Media Contact

Marlen Sittner
Head of Digital Marketing
Team Corporate Communications
Phone: +49 8638 9810-272

marlen.sittner@kraiburg-tpe.com

Asia Pacific

Bridget Ngang
Marketing Manager Asia Pacific
Phone: +603 9545 6301

bridget.ngang@kraiburg-tpe.com

Press Release

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Kuala Lumpur, July 2026

Page 2 of 4

bonding. The result is improved durability and greater user confidence in emergency situations.

Processing efficiency and material adaptability

These materials are suitable for injection molding and extrusion, offering optimized flow properties for efficient processing and consistent product quality. They enable the precise manufacturing of complex components such as switches, seals, membranes, and flexible connections. The materials are available in natural colors and are fully colorable for branding, differentiation, and identification.

Soft touch advantage for broader application

The compounds provide a soft-touch surface that improves grip and handling, making them excellent material for an array of [medical and healthcare applications](#), including functional and design elements, soft-touch grips, switches, mats, seals, valves, membranes, and flexible connections. This versatility allows manufacturers to standardize materials across different medical devices while maintaining compliance and performance.

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.

Press Release

KRAIBURG TPE Pumps Up Reliability in AED Application with Medical-Grade TPE

Kuala Lumpur, July 2026

Page 3 of 4

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

Discover More with TPE: Committed to innovation and regulatory compliance, KRAIBURG TPE supports manufacturers in developing safe, durable, and high-performance products for healthcare and medical devices applications, such as [otoscope](#), [ultrasound device](#) and [wheelchair](#).

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
(bridget.ngang@kraiburg-tpe.com , +6 03 9545 6301).

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Press Release

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Kuala Lumpur, July 2026

Page 4 of 4

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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.