

Press Release

How Can Medical Device Manufacturers Improve Exoskeleton Walking Aids? KRAIBURG TPE's THERMOLAST® H Series Provides Flexible, Medical-Grade TPE Solutions for Reliable Mobility.

Kuala Lumpur, October 2026

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How Can Medical Device Manufacturers Improve Exoskeleton Walking Aids? KRAIBURG TPE's THERMOLAST® H Series Provides Flexible, Medical-Grade TPE Solutions for Reliable Mobility.

Mobility is vital to independent living, and for mobility-challenged individuals, modern assistive devices provide practical mobility solutions. An exoskeleton walking aid is a wearable robotic device that improves mobility by facilitating movement and reducing physical effort during walking. To achieve these functions, manufacturers require thermoplastic elastomers (TPE) that combine medical compliance with comfort, reliability, and safety.

KRAIBURG TPE, a global manufacturer of advanced TPEs and specialized material solutions, introduces the [THERMOLAST® H Series](#) developed exclusively for healthcare and medical device applications in the Asia-Pacific region. The multifunctional TPE materials offer mechanical properties that enable manufacturers to design durable systems with consistent performance throughout the product lifecycle, making them suitable for exoskeleton walking aid components such as seals, valves, membranes, and flexible connections.

How does soft-touch TPE improve comfort in exoskeleton walking aid?

THERMOLAST® H Series exhibits a soft-touch surface that improves comfort and handling in wearable rehabilitation devices. Exoskeleton systems involve prolonged contact with the body. The pleasant tactile feel enhances interaction in applications where patients and healthcare professionals frequently use the device.

The TPE material is particularly suitable for [soft-touch grips](#), handles, support structures, control interfaces, switches, mats, and other functional elements integrated into exoskeleton systems.

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Flexible design via injection molding

THERMOLAST® H Series is suitable for injection molding processes, enables efficient manufacturing of complex medical device components. The material can be used in a variety of functional and design elements that require precision, consistency, and production efficiency.

Available in natural color and fully colorable, the compounds provide additional flexibility for product differentiation, branding, and device identification.

Safety and biocompatibility-compliant material

THERMOLAST® H Series is free from animal-derived ingredients. The TPE series complies with Regulation (EU) No 10/2011, US FDA CFR 21 raw material requirements, and cytotoxicity standards ISO 10993-5 and GB/T 16886.5 for [medical and healthcare applications](#). The material is suitable for medical device manufacturers requiring high levels of product safety.

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.

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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: By combining medical compliance, soft-touch comfort, optimized mechanical performance, and efficient processing, THERMOLAST® H Series helps manufacturers create wearable devices that improve mobility and enhance user confidence, such as [prosthetic](#) and [wrist orthoses](#).

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 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

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Germany and holds ISO 9001 and ISO 14001 certifications at all its sites worldwide.