

Press Release

Comfort and Fit in Ostomy Care: How KRAIBURG TPE's TPE Materials Deliver Performance

Kuala Lumpur, July 2025

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Living with an ostomy bag often means managing daily discomfort, staying alert to leaks or skin irritation, and being constantly aware of the bag's presence, especially in social or active situations. In other words, it is not easy. These are the kinds of challenges that manufacturers must consider, starting with the choice of materials. Thermoplastic elastomers (TPEs) are valued for their softness, biocompatibility, and ability to form secure seals. Their versatility in both function and form makes them especially well-suited to improving the day-to-day experience of users without compromising performance.

KRAIBURG TPE, a global manufacturer of [TPE compounds](#) for various industries, offers material solutions that meet the requirements for safety, durability, biocompatibility and user comfort in ostomy care accessories.

Secure bonding for leak resistance

KRAIBURG TPE's material solutions exhibit exceptional adhesion to polypropylene (PP) and polyethylene (PE). This good bonding capability makes them ideal for products that require leak-resistant seals, flexibility, and long-term durability. At the same time, they help simplify assembly by eliminating the need for additional adhesives.

Durable seals for frequent use

KRAIBURG TPE's TPE compounds offer high elasticity, and a low compression set. These properties make them suitable for ostomy bag seals, which need to maintain their shape under pressure to prevent leaks. The material's flexibility allows it to move with the body, helping to provide a secure and comfortable fit for daily use.

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Material safety compliant for medical use

KRAIBURG TPE's [TPE compounds are sterilizable](#) using autoclaving at 121°C or ethylene oxide, meeting the stringent hygiene protocols required for [medical devices](#). They comply with ISO 10993-5, GB/T 16886.5 (cytotoxicity), Regulation (EU) No 10/2011, US FDA CFR 21, and GB 4806.7-2023, and contain no animal-derived ingredients.

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.

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.