Press Release

How to Select Materials for Disposable Tourniquet Bandages? KRAIBURG TPE's Precision-Engineered TPE Solutions Support Reliable Performance and Efficient Manufacturing

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As the demand for emergency care and disposable medical devices continues to grow, medical device manufacturers and product developers are increasingly seeking materials that deliver reliable performance, patient safety, and efficient manufacturing. For disposable tourniquet bandages, consistent elasticity, secure tension, durability, and ease of use are essential to support rapid bleeding control in emergency situations. As a result, selecting the right material has become a critical part of disposable medical device development.

KRAIBURG TPE, a global manufacturer of TPEs and customized solutions for various industries, offers TPE materials suitable for disposable tourniquet bandages, owing to their mechanical properties that ensure reliable and effective use in critical medical situations.

Why Are Comfort and Ease of Use Important for Disposable Tourniquet Bandages?

KRAIBURG TPE's material compounds provide a soft, non-sticky surface that enhances handling comfort for both patients and healthcare providers. Moreover, their colorability enables clear visual differentiation for sizing or procedural use, aiding accurate and efficient application.

Efficient production and recyclability

Efficient production depends on materials that support consistent processing, reduced waste, and reliable manufacturing performance.

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KRAIBURG TPE's material compounds enable in-process recycling for efficient manufacturing workflows and reduced material waste. Optimized flow properties facilitate injection molding of precise, consistent bandage components, locking in their quality and performance across production batches.

Conformity with medical-grade materials and safety standards

In addition to performance, medical device manufacturers increasingly require materials that comply with stringent safety and regulatory standards.

KRAIBURG TPE's material compounds comply with international regulations, including Regulation (EU) No 10/2011, US FDA 21 CFR (raw material conformity) and EN 71-3.

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.

Discover More with TPE: From wrist orthoses to metered dose nasal spray bottle, our advanced TPE materials empower your medical devices with unmatched performance and comfort.

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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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.