

Press Release

**How Can Dental Film Manufacturers Achieve Safer and More Reliable Designs?
KRAIBURG TPE Provides Medical-Grade TPE Solutions for Advanced Dental Applications**

Kuala Lumpur, August 2026

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Oral health's link to overall health and well-being cannot be undermined, making regular dental checkups and thorough examination of the oral cavity increasingly necessary. While innovation in this field has accelerated multifold in recent years, traditional dental film remains a staple in diagnostic dentistry. Dental experts rely on dental film to detect hidden cavities, assess bone loss, and identify deep-rooted dental issues.

Dental films are flexible, moisture-resistant packets used in dental imaging. Thermoplastic elastomers (TPEs) can be used in dental film components, such as the outer packet, because they provide a comfortable and biocompatible casing that protects the imaging components from moisture while remaining durable.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomers and customized material solutions, offers [medical-grade TPE compounds](#) suitable for a wide range of medical devices and dental components, with soft-touch properties, flexible mechanical performance, and processing versatility.

Media Contact

How can TPE improve comfort and performance in dental film applications?

KRAIBURG TPE's specialized compounds offer elastic properties and soft-touch characteristics to meet the requirements of ergonomic product design, dimensional stability, and reliable performance for optimal comfort for both patients and healthcare professionals. The TPE compounds provide design flexibility, making them ideal for dental components such as flexible connections, seals, [mouthpieces](#), protective elements, and functional features in dental film systems.

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Multimaterial bonding and processability for efficient production

KRAIBURG TPE's selected TPE compounds offer reliable adhesion to polyolefins such as polypropylene (PP) and polyethylene (PE), as well as to technical thermoplastics and polyamides, using conventional processes such as [injection molding](#) and [extrusion](#), enabling efficient production workflows and design versatility.

Compliant with global safety and biocompatibility standards

KRAIBURG TPE's high-performance TPE materials are designed to be safe, hygienic, and biocompatible. They are sterilizable and free from animal-derived ingredients, latex, PVC, and heavy metals. Selected medical-grade materials comply with key safety standards, including DIN ISO 10993-4 (hemolysis, indirect blood contact), DIN ISO 10993-5 (cytotoxicity), DIN ISO 10993-10 (intracutaneous irritation), DIN ISO 10993-11 (acute systemic toxicity), USP Class VI, and extraction testing requirements.

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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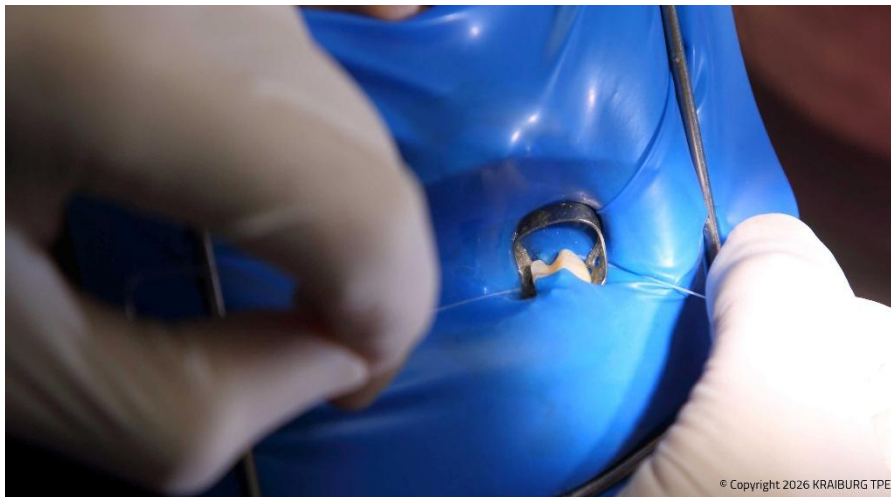
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From reducing emissions to increasing circularity, our sustainable TPEs deliver reliable performance and are available worldwide to support your applications while advancing your sustainability goals.

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

Discover More with TPE: As dental product development continues evolving, manufacturers are increasingly evaluating materials that can contribute to patient comfort, product functionality, and efficient manufacturing. Whether it's [dental floss](#) or [interdental brush](#), KRAIBURG TPE continues supporting manufacturers seeking advanced material solutions for possible medical and dental applications, including future opportunities in dental film-related product development.

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

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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.