

Press Release

What Makes an Ideal Material for Serum Bottle Caps? KRAIBURG TPE's THERMOLAST® K Combines Reliable Sealing, Precise Dispensing, and Premium Packaging Design
Kuala Lumpur, September 2026
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The skincare market is booming, and facial serums continue to dominate the beauty and personal care market. As consumer expectations continue to evolve, brand owners, packaging manufacturers, product designers, and R&D engineers are increasingly seeking packaging solutions that combine product protection, dispensing precision, and premium user experience. To maximize product performance, caps and closures must provide airtight sealing to prevent oxidation and contamination while preserving the potency of active ingredients. Closure designs must also ensure dosing accuracy and precise product application. Advanced materials such as thermoplastic elastomers (TPEs) are increasingly preferred for [cosmetic packaging components](#) due to their sealing performance, flexibility, and design versatility.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomers and customized material solutions for various industries, leverages its advanced THERMOLAST® K technology to provide high-performance TPE materials for skincare packaging applications.

Why Are Adhesion and Design Flexibility Important for Serum Bottle Caps?

[THERMOLAST® K series](#) offers excellent adhesion to polypropylene (PP), allowing secure bonding between soft and rigid components. This series, available in hardness ranges from 30 to 90 Shore A, feature optimized mechanical and flow properties that enable precise molding and consistent product quality for caps and closures. The series' colorability allows premium designs, while its non-sticky surface prevents residue buildup for cleaner handling of packaging parts.

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Safety-focused and regulatory-compliant compounds

In addition, brand owners and packaging manufacturers increasingly require materials that comply with stringent safety and regulatory standards.

THERMOLAST® K series is halogen-free according to IEC 61249-2-21 and enables in-process recycling, contributing to environmentally responsible production. This TPE series complies with pertinent regulations, including Regulation (EU) No 10/2011, US FDA CFR 21 (raw material conformity), and EN 71-3, while offering good resistance to cosmetic ingredients such as Isododecane, ensuring safe and reliable use in [cosmetic and skincare packaging](#).

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.

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Discover More with TPE: Enhance everyday products with versatile TPE materials that deliver safety, comfort, and smart design, from [serum packaging](#) to [facial cleanser devices](#).

***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.