

Press Release

How Can Material Selection Improve Flip Top Cap Performance? KRAIBURG TPE's THERMOLAST® K Delivers Reliable Sealing, Design Flexibility, and Efficient Manufacturing

Kuala Lumpur, August 2026

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As consumer expectations for convenience, product safety, and sustainable packaging continue to evolve, packaging manufacturers, brand owners, and product developers are placing greater emphasis on materials that enhance both functionality and manufacturing efficiency. For flip-top caps, reliable sealing, controlled dispensing, durability, and design flexibility have become essential performance requirements. As a result, selecting the right material has become a key consideration in the development of modern flip-top cap packaging solutions.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomer compounds and customized TPE solutions for various industries, offers the [THERMOLAST® K series](#), a top-tier material with recycling advantages. The series features optimized mechanical properties and high elasticity to maintain the integrity of container-closure systems, ensuring consistent opening and closing performance over repeated use. The material provides excellent adhesion to polypropylene (PP), allowing efficient multi-component injection molding and secure integration with rigid cap structures.

How Can Material Selection Enhance Flip Top Cap Design and Sustainability?

The THERMOLAST® K series offers [full colorability](#), allowing brands to achieve strong visual differentiation and premium packaging designs. These TPE compounds are suitable for in-process recycling. They are also certified by Cyclos HTP as compatible with HDPE and PP recycling streams, creating opportunities for more resource-efficient production.

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Compliant materials designed for circularity

In addition to performance, packaging manufacturers increasingly require materials that comply with stringent food contact and consumer product safety regulations.

THERMOLAST® K series complies with major regulatory requirements for food contact and consumer product safety, including Regulation (EU) No 10/2011, US FDA CFR 21 (raw material conformity), and EN71-3. An ideal material choice for circular economy initiatives, it enables the adoption of certified circular feedstocks in packaging development. It is also ISCC PLUS ready through a mass balanced approach.

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: Whether it's [serum packaging](#) or [lip gloss packaging](#), KRAIBURG TPE delivers safe, durable, and user-friendly solutions for every day.

***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.