

## Press Release

**KRAIBURG TPE Focuses on Safe and Reliable Eye Drop Containers with TPE Solutions**

Kuala Lumpur, September 2025

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### **KRAIBURG TPE Focuses on Safe and Reliable Eye Drop Containers with TPE Solutions**

Single-dose eye drop containers are growing in popularity amid a consensus on end-user convenience, portability, and hygiene. For [healthcare device manufacturers](#) in the ophthalmic care segment, achieving high sterilizability, compact size, and robust build depends on high-quality medical-grade materials that deliver these benefits.

KRAIBURG TPE, a global manufacturer of thermoplastic elastomers (TPE) and customized material solutions for various industries, offers the high-performance THERMOLAST® H series, which meets the functionality, material safety, construction integrity, and sustainability standards required for eye care packaging.

#### **Secure Sealing with Excellent Adhesion to PP and PE**

[THERMOLAST® H series](#) exhibits excellent adhesion to both polypropylene (PP) and polyethylene (PE), enabling efficient multi-component injection molding of rigid container parts and ensuring a tight, leak-proof seal, which are essential for sterility and dose accuracy. Moreover, since most eye-drop bottles feature resealable caps or dispensing nozzles that must withstand repeated openings, this TPE series with its optimized compression set helps maintain consistent sealing force, keeping containers secure, tamper-resistant, and easy for patients to use

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#### **Color-Coding Branding and Dosing Accuracy**

The THERMOLAST® H series provides excellent colorability, allowing for the differentiation of eye drop containers based on medication type, dosage strength, or brand identity. This customization aids in product identification

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and contributes to patient compliance by reducing the risk of medication errors.

### **Sterilizable and Biocompatible**

The THERMOLAST® H series is suitable for sterilization by autoclave (121°C) and ethylene oxide (EtO), ensuring clean and hygienic use in ophthalmic containers. Additionally, these sterile materials comply with international food contact and [medical safety standards](#), including ISO 10993-5 and GB/T 16886.5 (cytotoxicity), Regulation (EU) No 10/2011, US FDA CFR 21, and GB 4806.7-2023 (China), demonstrating their safety for both direct and indirect contact with patients and medications.

### **Ethically Conscious Material Choice**

The THERMOLAST® H series is free from animal-derived ingredients, meeting clean-label requirements and adhering to current manufacturing standards for safety and transparency. This medical TPE compounds are well-suited for typical applications in ophthalmic packaging, including functional and design elements, seals, flexible connections, mouthpieces, and closures.

### **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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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.*



**(Photo: © 2025 KRAIBURG TPE)**

For high-resolution photography, please contact Bridget Ngang  
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KRAIBURG TPE ([www.kraiburg-tpe.com](http://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.