

Press Release

KRAIBURG TPE Capitalizes on TPE Innovation for Syringe Cap Applications

Kuala Lumpur, February 2024

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Syringe cap design plays a critical role in ensuring the safety, efficiency, and cost-effectiveness of syringe prefilling programs, making thermoplastic elastomers an attractive alternative for such applications.

KRAIBURG TPE's THERMOLAST® H HC/RS/AP series is the ideal material solution for **healthcare and medical** <https://www.kraiburg-tpe.com/en/medical> resealing applications. In addition to meeting the healthcare industry's stringent requirements, this series also provides the necessary performance and reliability to support the evolving needs of medical professionals and pharmaceutical companies in syringe-related applications. The utilization of THERMOLAST® H in a syringe cap is dependent on the specific syringe designs and materials used.

The **THERMOLAST® H** <https://www.kraiburg-tpe.com/en/thermolast-h-healthcare-tpe> HC/RS/AP series exhibit exceptional resealing properties to effectively prevent leakage and contamination, thereby enabling the safe preparation of advanced medications for patients.

The series has undergone testing in accordance with ISO 10993-5 and GB/T 16886.5 for cytotoxicity, ensuring its compliance with essential healthcare industry standards such as US FDA CFR 21, Regulation (EU) No 10/2011, REACH, and RoHS requirements. It is also free of animal ingredients, PVC, silicone, and latex, ensuring the safety and suitability for healthcare and medical applications.

In addition to its safety credentials, the HC/RS/AP series offers excellent versatility, with good adhesion to PP and PE through injection molding, making it suitable for various **medical device applications**.

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<https://www.kraiburg-tpe.com/en/tpe-enhancing-euro-head-cap-advancing-resilience-and-resealing-abilities>

Moreover, its availability in translucent colors allows for pre-coloration, catering to specific project requirements and aesthetic preferences.

The THERMOLAST® H HC/RS/AP series proves KRAIBURG TPE's commitment to providing advanced materials that meet the stringent demands of the healthcare industry, ensuring the highest levels of safety, reliability, and performance in medical applications.

Sustainability successes of our TPEs

KRAIBURG TPE's recent sustainability innovations include a series of material solutions specially developed for automotive, consumer, consumer electronics, wearables and industry applications. Comprising up to 48% post-consumer recycled (PCR) and 50% post-industrial recycled (PIR) content, the material complies with multiple global standards such as FDA raw material compliance, RoHS and REACH SVHC requirements. KRAIBURG TPE also provides customers with product carbon footprint values.

Are you looking for a sustainable TPE solution? [Talk to us!](#)

Our experts are happy to answer any questions you have, as well as to offer the right solution for your application.

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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 660 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.