

Press Release

Advancing Catheter Connectors with KRAIBURG TPE's Cutting-Edge Materials

Kuala Lumpur, May 2024

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Advancing Catheter Connectors with KRAIBURG TPE's Cutting-Edge Materials

Catheter connectors are vital components in medical procedures, ensuring the secure attachment of catheters to various medical devices. KRAIBURG TPE, the global manufacturer of innovative Thermoplastic Elastomer (TPE) materials, is transforming the landscape of catheter connector manufacturing to meet the increased demand for reliability, safety, and performance.

KRAIBURG TPE's **THERMOLAST® H** <https://www.kraiburg-tpe.com/en/thermolast-h-healthcare-tpe> – HC/AP series is an innovative solution designed to meet the stringent requirements of the **healthcare industry**, <https://www.kraiburg-tpe.com/en/medical> demonstrating their commitment to excellence in TPE formulations.

KRAIBURG TPE's advanced TPE materials are designed to redefine the standard of catheter connector manufacturing. Offering unparalleled performance, safety, and reliability, our innovative solutions aim to drive advancements in medical device technology, ultimately enhancing patient care and outcomes worldwide.

Material Advantages

- **Adhesion to PP, PE:** The strong and reliable connection between the TPE material and the connector components enhance the overall durability and performance of the catheter assembly.
- **Optimized compression set:** Catheter connectors often undergo repeated compression and deformation during use. The TPE material's optimized compression set ensures that it can maintain its shape and sealing properties over time, even under continuous compression cycles.

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- **Colorable:** <https://www.kraiburg-tpe.com/en/coloring> Allows for customization and differentiation of catheter connectors.
- **Sterilizable (autoclave 121°C, EtO):** Allows the connectors to withstand common sterilization methods such as autoclaving (steam sterilization at 121°C) and ethylene oxide (EtO) gas sterilization, maintaining its integrity and performance throughout the sterilization process.
- **Free from animal ingredients:** To minimize the risk of allergic reactions or contamination.
- **Regulations:** Regulation (EU) No 10/2011, US FDA CFR 21, China GB4806-2016, ISO 10993-5 (Cytotoxicity), GB/T 16886.5 Cytotoxicity

Ideal applications

The THERMOLAST® H HC/AP series is ideal for functional and design elements, seals, flexible connections, mouthpieces and closures applications.

Sustainability successes of our TPEs

Besides catheter connectors applications, 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.