

Press Release

KRAIBURG TPE: Surgical Stapler Achieves Optimal Grip with TPE Handle

Kuala Lumpur, March 2024

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Surgical staplers play a vital role in modern medicine, facilitating the closure of large surgical wounds with precision. Ensuring the safety, grip, and comfort of these essential medical instruments is paramount. KRAIBURG TPE, a leading global thermoplastic elastomer (TPE) manufacturer, is proud to introduce its **THERMOLAST® H** <https://www.kraiburg-tpe.com/en/thermolast-h-healthcare-tpe> series exclusively in the Asia Pacific market, offering an ideal solution for **healthcare and medical applications**. <https://www.kraiburg-tpe.com/en/medical>

THERMOLAST® H has undergone rigorous testing, including ISO 10993-5 and GB/T 16886.5 (cytotoxicity), ensuring its safety and compliance. It conforms to strict regulatory standards, including US FDA CFR 21 and Regulation (EU) No 10/2011, providing peace of mind for medical applications. Additionally, THERMOLAST® H is environmentally conscious, being free of animal ingredients and devoid of PVC, silicone, and latex. Its versatility extends to sterilization methods, as it can be safely autoclaved at 121°C or sterilized using EtO, ensuring a high level of hygiene in medical settings.

THERMOLAST® H is available in both translucent and natural colors. Its in-house precoloring option allows customization to meet specific project needs, ensuring a seamless integration into various designs.

Durability and Dependable Performance

The HC/AP series of THERMOLAST® H features excellent haptics and a soft-touch surface, ensuring users have an **anti-slip grip** <https://www.kraiburg-tpe.com/en/anti-slip-and-enhanced-grip-solutions->

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[emergency-responder-stretcher-handles-and-mats](#) and ergonomic comfort during device use. Its good compression set properties further enhance its appeal by ensuring long-lasting durability and dependable performance, meeting the thorough demands of medical applications.

Good Adhesion with Polar Thermoplastics

The HC/AD1/AP series within THERMOLAST® H offers an alternative solution for surgical stapler applications, featuring excellent mechanical properties and a soft-touch surface that enhances user comfort. This polar adhesion series demonstrates strong compatibility with polar thermoplastics such as PC, ABS, PC/ABS, ASA, SAN, PET, PETG, and PS through injection molding, making it an ideal choice for handle and grip applications. Furthermore, the overmolding process allows for versatile molding, enabling the TPE series to take on different textures and shapes in alignment with the device's design, promoting both functionality and aesthetics.

Beyond the two mentioned series, the THERMOLAST® H series presents an extensive array of material solutions tailored for medical devices and packaging applications. These materials have undergone rigorous testing to meet diverse requirements and compliance standards, primarily catering to the Asia Pacific market, ensuring they align with regional regulations and demands.

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.

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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.



(Photo: © 2024 KRAIBURG TPE)

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.