

Press Release

New THERMOLAST® H polar adhesion TPE series for medical devices

Kuala Lumpur, November 2022

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New THERMOLAST® H polar adhesion TPE series for medical devices

KRAIBURG TPE, a global manufacturer of thermoplastic elastomer products and custom solutions for a wide range of industries, is proud to introduce the THERMOLAST® H HC/AD1/AP series of compounds that allow adhesion with a range of polar thermoplastics.

The medical device industry is driving product innovation to meet the demands of today's advanced healthcare system. Thermoplastic elastomers (TPEs) are widely used in medical technology because of their high strength, transparency, biocompatibility, as well as soft touch surface and superior adhesion properties.

Recently, KRAIBURG TPE has added the HC/AD1/AP polar adhesion series to the THERMOLAST® H product family that offers superior bonding with PC, ABS, PC/ABS, PETG, and PCTG polymers.

Heng Hooi Chi, Product Specialist at KRAIBURG TPE, comments on the material advantage of the THERMOLAST® H series: "THERMOLAST® H is your material solution for healthcare and medical device application needs with superior adhesion to engineering thermoplastics such PC, ABS, PETG, etc. Our high-quality material solutions meet Asia Pacific medical standards and custom-engineered support at all project stages upon request."

Aditya Purandare, Project Manager Market Launch THERMOLAST® H Asia Pacific, comments on the material advantage of the THERMOLAST® H series: "Manufacturing THERMOLAST® H, the exclusively designed TPE for the Asia Pacific medical device market requirements in Malaysia will benefit our Asian customers with a high-quality product, quick lead times, application and technical support as well as product customization."

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Design flexibility for products

KRAIBURG TPE's THERMOLAST® H HC/AD1/AP series, which is available in hardness ranging from 30 to 80 Shore A, has optimized mechanical properties and soft touch surface for product design flexibility.

The series is available in natural color for flexible coloration options, since manufacturers are increasingly looking for opportunities to strengthen their competitive edge by enhancing their product aesthetic impact.

KRAIBURG TPE's THERMOLAST® H HC/AD1/AP series can be directly injection moulded (without bonding agents) to adhere a hard thermoplastic with a soft TPE compound, allowing for savings in multi-component applications, as well as rendering shorter assembly and production times.

Medical-use compounds

Targeted at the medical device sector, the THERMOLAST® H HC/AD1/AP series is sterilizable.

Furthermore, this series is free of animal ingredients, PVC, silicone, and latex, and complies with Cytotoxicity ISO 10993-5, GB/T 16886.5 as well as the RoHS and REACH.

This makes the compound ideal for use in healthcare and medical device applications such as handles and grips, push buttons, seals, valves, flexible connectors, and other products requiring high levels of safety and hygiene.

Sustainability successes of our TPE

KRAIBURG TPE's recent sustainability innovations include a specially developed material solution for automotive, consumer, and industry applications comprising post-consumer recycled (PCR) and post-industrial recycled (PIR) content.

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

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



(Photo: © 2022 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 thermoplastic elastomers. From its inception in 2001 as subsidiary of the historical KRAIBURG Group founded in 1947, KRAIBURG TPE has pioneered in TPE compounds, being the competence leader in this industry. The mission is to provide products that improve everyday life by offering safe, comfortable and more sustainable alternatives in plastics. With over 680 employees worldwide and production sites in Germany, the US, and Malaysia, the company offers a broad range of compounds for applications in the automotive, industrial, consumer, and for the strictly regulated medical sectors. The established THERMOLAST®, COPEC®, HIPEX®, and For Tec E® product lines are processed by injection molding or extrusion and provide numerous processing and product design advantages to manufacturers. KRAIBURG TPE features innovative capabilities as well as true global customer orientation, customized product solutions and reliable service. The company is certified to ISO 50001 at its headquarters in Germany and holds ISO 9001 and ISO 14001 certifications at all global sites.