

Press Release

7 good reasons to choose KRAIBURG TPE's material for orthopedic equipment

Kuala Lumpur, June 2022

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KRAIBURG TPE Technology
(M) Sdn Bhd
Lot 1839 Jalan KPB 6
Kawasan Perindustrian Balakong
43300 Seri Kembangan, Selangor,
Malaysia

Phone +60 3 9545 6393

Info-asia@kraiburg-tpe.com
www.kraiburg-tpe.com

7 good reasons to choose KRAIBURG TPE's material for orthopedic equipment

KRAIBURG TPE, a global manufacturer of thermoplastic elastomers (TPE) and custom TPE solutions for a variety of industries, offers the THERMOLAST® H HC/AP series of compounds that can be used in designs of orthopedic equipment.

Thermoplastic elastomers (TPEs) have been used in in orthopedic equipment due to the material's functionality, durability and exclusive material properties. For this reason, KRAIBURG TPE's innovative THERMOLAST® H HC/AP compound series offers the ideal material solution for various orthopedic equipment such as wheelchairs, crutches, knee joint braces, orthopedic walking boots and lumbar supports.

Apart from critical factors such as performance, weight, and properties - TPEs are also the choice material for many medical applications because of their high degree of purity (low level of extractable compounds), recyclability and cost-effectiveness. For medical equipment designers and manufacturers, the THERMOLAST® H HC/AP compound series offers many advantages, such as:

- **Focused for Asia Pacific's medical needs**

KRAIBURG TPE's THERMOLAST® H series of compounds have been exclusively designed for the Asia Pacific healthcare and medical devices market.

- **Compliance to many international standards**

Their high-quality material solutions comply with various international standards, such as Cytotoxicity ISO 10993-5, GB/T 16886.5, as well as EU No. 10/2011, GB4806, FDA CFR 21, REACH and RoHS.

Media Contact

Marlen Sittner
Head of Digital Marketing
Team Corporate Communications
Phone: +49 8638 9810-272
marlen.sittner@kraiburg-tpe.com

Asia Pacific
Bridget Ngang
Marketing Manager Asia Pacific
Phone: +603 9545 6301
bridget.ngang@kraiburg-tpe.com

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- **Excellent properties**

Amongst its advantages, THERMOLAST® H offers good adhesion to PP. It also provides excellent haptics with a soft touch surface feel, which are ideal for applications such as handles for crutches, wheelchairs as well as inner padding for knee joint brace and ankle brace.

- **Easy-processing and sterilizable TPE in medical devices**

KRAIBURG TPE, which specializes in the manufacture of application-specific custom-formulated TPE materials for injection molding and extrusion processes, also ensures that orthopedic equipment is safe for use and meets hygiene standards. Thus, the THERMOLAST® H compounds are sterilizable by autoclave 121°C and EtO.

- **Free from animal and harmful ingredients**

The compounds, which are free from animal ingredients, can replace the use of latex and PVC materials, since latex can cause allergic reactions.

- **Excellent adhesion and sealing**

KRAIBURG TPE's compounds are cost-effective and offer excellent sealing and adhesion performance.

- **Color and design flexibility**

The THERMOLAST® H is offered as translucent and in-house precoloring is also possible, subject to specific project requirements. Orthopedic equipment product designers will find this It compound series advantageous because of its design flexibility and application possibilities.

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Sustainability successes of our TPE

Besides the materials for orthopedic equipment, 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!](#)

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
(bridget.ngang@kraiburg-tpe.com , +6 03 9545 6301).

Information for members of the press:



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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.