

Press Release

Medical Seals and Gaskets with Polar Adhesion TPE

Kuala Lumpur, February 2023

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Medical Seals and Gaskets with Polar Adhesion TPE

KRAIBURG TPE offers THERMOLAST® H HC/AD1/AP polar adhesion series for gaskets, seal and sealing components

The development of safe and effective medical devices has been the industry's top priority. According to the World Health Organization, there are over two million different types of medical devices on the global market, each of which belongs to a specific generic device group. These devices are used in therapeutic and diagnostic procedures, as well as patient care and medical research.

A variety of medical instruments rely on high-performance gaskets, seals, and sealing components to protect them from dirt, dust, liquids, electromagnetic interference, electrostatic discharge, and flame, among other things.

As a result, thorough selection of the material capable in meeting these requirements for gaskets, seals, and sealing components is important.

Manufacturers are increasingly using TPEs due to their material properties and cost-effectiveness, with safety and efficacy being important parameters when developing medical devices and parts.

KRAIBURG TPE, a global TPE manufacturer of a wide range of TPE products and custom solutions for multiple industries, offers the THERMOLAST® H HC/AD1/AP polar adhesion series for medical device components that require superior sealing performance, processing benefit, and overall cost savings for the manufacturer.

Suitable hardness and flexibility, simple processing

THERMOLAST® H HC/AD1/AP series is available in a variety of hardness ranging from 30 to 80 Shore A, allowing the manufacturer to select the appropriate hardness for the application as needed. The compound can be injection molded to adhere to polar thermoplastics such as PC, ABS, PC/ABS,

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ASA, SAN, PET, PETG, PS, and others. It also has optimized mechanical properties and a soft touch surface for product design flexibility.

Sterilisable, clean material

THERMOLAST® H HC/AD1/AP series is sterilizable. This series is also free of animal ingredients, PVC, silicone, and latex, and it complies with regulations such as Cytotoxicity ISO 10993-5, GB/T 16886.5, RoHS, and REACH.

Versatile color advantage

THERMOLAST® H HC/AD1/AP series is available in natural color and can be customized to meet the project's unique requirements. This property qualifies the compound for use in medical and healthcare seals and gaskets.

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!](#)

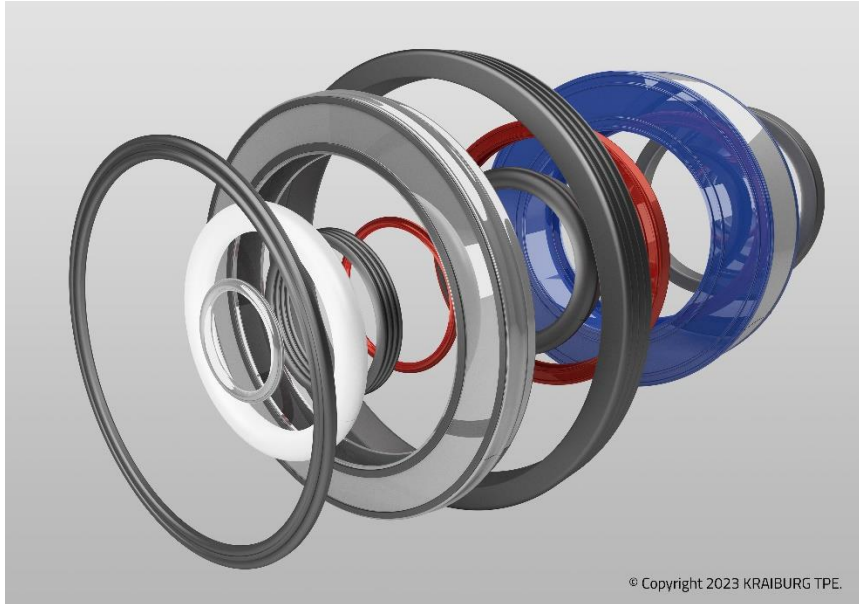
Our experts are happy to answer any questions you have, as well as to offer the right solution for your application.

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(Photo: © 2023 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 680 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.