

Press Release

KRAIBURG TPE Powers Sustainable Innovation in Vacuum Accessory Design

Kuala Lumpur, November 2023

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The market for vacuum cleaners offers a wide variety of alternatives, from conventional corded versions to cutting-edge wireless ones. Thermoplastic elastomers (TPE) play a crucial role in boosting the device's usefulness and durability and emerging as necessary materials for vacuum cleaner accessories today.

The versatility and high-quality demands of vacuum cleaner accessories have spurred innovation in TPE materials, positioning them at the forefront of this essential household appliance's evolution.

KRAIBURG TPE's RC/PCR/AP series have become the choice material for the fabrication of vacuum cleaner accessories, including gaskets, filters, brushes, buttons, grips, and more. These materials elevate performance and durability, ensuring that vacuum cleaners perform at their best.

The KRAIBURG TPE RC/PCR/AP series offers several key advantages:

- **Mechanical Excellence** <https://www.kraiburg-tpe.com/en/industry> - exhibiting exceptional mechanical properties, including flexibility, elasticity, and durability, making them ideal for various vacuum cleaner applications.
- **Enhanced Assembly** - offering excellent surface friction, facilitating assembly processes and ensuring better component fit. This feature is particularly beneficial in applications such as filters and sealings.
- **Sustainability** <https://www.kraiburg-tpe.com/en/sustainability> - attesting KRAIBURG TPE's commitment to sustainability, with up to 48% of post-consumer recycled material depending on hardness. This meets the interests of environmentally concerned customers, lessening the impact on the environment.

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- Hardness – with hardness range options between 50-90 Shore A, this series meets different vacuum cleaner accessory requirements.
- User Comfort - the THERMOLAST® R RC/PCR/AP <https://www.kraiburg-tpe.com/en/tpe-tool-handles-combine-performance-sustainability> series' soft-touch surface and non-sticky attributes for buttons, grips, and handles maximizes user comfort and grip during household cleaning tasks.
- Adhesion and Temperature Stability - the series exhibits excellent adhesion with polypropylene (PP) through injection molding processes and maintains temperature stability up to 80°C.
- Safety Compliance - the materials have undergone rigorous testing, meeting UL 94HB standards for safety and reliability.

KRAIBURG TPE's commitment to innovation extends beyond its existing offerings, thanks to its customization options for customers to tailor-make thermoplastic elastomers to suit their precise requirements. This dedication to flexibility ensures that vacuum cleaner manufacturers can continue to deliver high-quality products <https://www.kraiburg-tpe.com/en/innovative-recycled-tpe-asia-pacific> to meet evolving consumer demands.

As the demand for versatile and high-quality vacuum cleaners continues to rise, KRAIBURG TPE's TPE materials play a pivotal role in shaping the future of these essential household appliances.

Sustainability successes of our TPEs

Besides vacuum cleaner accessories 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

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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.



(Photo: © 2023 KRAIBURG TPE)

For high-resolution photography, please contact Bridget Ngang (bridget.ngang@kraiburg-tpe.com , +6 03 9545 6301).

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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.