

Press Release

Sustainable TPEs make hot substitutes for iron applications

Kuala Lumpur, March 2023

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Sustainable TPEs make hot substitutes for iron applications

KRAIBURG TPE, a global TPE manufacturer of thermoplastic elastomer products and custom engineered TPE solutions for an extensive variety of consumer product applications, offers the THERMOLAST® R RC/PCR/AP series of compounds, with up to 35% post-consumer recycled content for applications in irons and other appliances.

The quest to reduce the carbon footprint has gained traction in modern appliances that use electricity. Today's market offers a wide range of low carbon-emission electric irons, from standing irons and compact irons to conventional irons and steamer irons that have smart features, energy-efficient systems, and advanced controls.

These types of irons are now made of environmentally friendly plastics and other cutting-edge materials such as thermoplastic elastomers (TPEs), which are lightweight, recyclable, and long-lasting.

TPEs are non-conductive to electricity, heat and are chemical-resistant, with other properties that make them suitable for use in personal and commercial electric irons.

KRAIBURG TPE, a global TPE manufacturer of thermoplastic elastomer products and custom-engineered TPE solutions for an extensive variety of consumer product applications, has recently launched the THERMOLAST® R RC/PCR/AP series of compounds, which is a material solution with post-consumer recycled content targeted at sustainable grips, handles, connectors and other appliances.

Sustainability and safety major advantages

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Manufacturers today are mindful of the materials used in their products as they strive for sustainability.

The post-consumer recycled content in KRAIBURG TPE's THERMOLAST® R RC/PCR/AP compound series ranges from 9% to 35% (hardness-dependent).

Thus, the TPE materials are suitable for applications such as functional and design elements, handles, grips, connectors, and more. They can be used as an alternative to EPDM and PVC-P as well as elastomers, offering a cost-effective solution to ease the burden on the environment.

KRAIBURG TPE's THERMOLAST® R RC/PCR/AP series of compounds meets the RoHS compliances. The compound series boasts good mechanical properties and temperature stability up to 80 °C, allowing for use in a range of appliances.

Stylish, comfortable designs

KRAIBURG TPE's THERMOLAST® R RC/PCR/AP series of compounds also has good bonding with PP resin, allowing for flexibility in product design.

Furthermore, through multi-component injection molding, it can be overmolded to allow for comfortable and non-slip handles, grips, and buttons.

As well, when consumers use the iron products, the TPE series' non-sticky surface property provides a comfortable and non-slip grip, which makes it suitable for applications in iron products.

Sustainability successes of our TPE

Besides the materials for iron applications, KRAIBURG TPE's recent sustainability innovations include a specially developed material solution for

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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: © 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.