

Press release

Long-term safety and reliable stability

Waldkraiburg, June 2022

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Long-term safety and reliable stability: High Resistance TPE for cosmetics

In the packaging sector, isododecane and similar substances are a challenge for thermoplastic elastomers (TPEs). If a material has not been specifically developed for use in the field of cosmetics, there is a risk that modifications such as swelling or degradation of the material may occur. This particularly affects products that are based on water-resistant formulations. With High Resistance TPE for Cosmetics, KRAIBURG TPE is introducing a product development that reliably meets standard requirements over the long term.

For manufacturers, the requirements that cosmetic products have to meet are high, as product reliability has to be ensured at all times. But visual and haptic qualities, which have a direct influence on purchasing decisions, are also vitally important. Along with these criteria, mechanical properties also play a crucial role for processors. High Resistance TPE for Cosmetics has enabled KRAIBURG TPE to expand its portfolio to include a compound series that withstands contact with particularly demanding ingredients, including isododecane. So the TPE manufacturer from Waldkraiburg, Germany, is now able to provide further solutions for the beauty market, including applications such as waterproof mascara, pipette lids, lip gloss applicators and cosmetics packaging.

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This new response for beauty applications is based on an established product from KRAIBURG TPE: COPEC® was developed to meet the requirements for high resistance to sebum oils. Due to its velvety surface, it also meets the demand for high-quality haptics in the field of consumer electronics. "We are now presenting our new materials solutions, High Resistance TPEs for Cosmetics, which for the first time make it possible to elegantly satisfy the high standards set by the cosmetics industry. Prospective clients will also benefit from the broad range of processing options available with the materials. This new product series is enabling us to meet customers' current wishes and to open up new applications," says Dr. Jan Bothe, product development scientist at KRAIBURG TPE.

High Resistance TPE for Cosmetics is available with hardness grades of 65, 75 and 85 Shore A and can be customized in many ways due to its opaque color. In addition, the new compounds have good processing properties in injection molding and allow adhesion to selected plastics. The materials also meet the standards of the cosmetics industry in accordance with US FDA CFR 21 and Regulation (EC) No. 10/2011 and comply with REACH, RoHS, California Proposition 65 as well as Mercosur No. 39/19. The TPEs are free of animal ingredients, so that they can be used throughout the cosmetics market. This is another product from KRAIBURG TPE that is suitable for in-process recycling.

High Resistance TPE for Cosmetics is now available worldwide.

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Image: With High Resistance TPE for Cosmetics, KRAIBURG TPE is expanding its portfolio to include a compound series that withstands contact with particularly demanding ingredients, including isododecane. *(Image: KRAIBURG TPE)*

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Information for press representatives



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About KRAIBURG TPE

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.