

Press Release

Pharmaceutical packaging in top form with TPEs

Kuala Lumpur, July 2020

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Pharmaceutical packaging in top form with TPEs

KRAIBURG TPE, a recognized global TPE manufacturer in superior TPE compounds, has packaged its THERMOLAST® M TPE compounds for pharmaceutical packaging applications.

Product shelf-life has always been the priority in the development of packaging materials. For pharmaceutical products, it is a vital feature to protect against biological contamination while maintaining the quality of the product until it reaches the consumer. Thus, the material used for pharmaceutical packaging has to meet requirements such as provide protection against light, heat, and moisture as well as ensure that there is no chemical reaction with the packaged drug.

Furthermore, the materials used in pharmaceutical packaging have to allow for design flexibility and not add extra weight to the packaging, for easy handling and storage.

The use of polymer materials such as thermoplastic elastomers (TPEs) has been an important milestone in the development of pharmaceutical packaging as they render the required properties, such as excellent barrier protection against UV light as well as feature high impact strength and durability.

Meeting these requirements, KRAIBURG TPE, a global TPE manufacturer of a wide range of thermoplastic elastomer products and custom solutions for multiple industries, offers its THERMOLAST® M TPE compounds. This is specially developed for the medical and pharmaceutical industry and assures the specifications required for pharmaceutical packaging. The series meets the medical grade plastics international standards set in the USP Class VI, ISO 10993-4 (haemolysis), ISO 10993-5 (cytotoxicity), ISO

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10993-10 (intracutaneous irritations) and ISO 10993-11 (acute system toxicity).

Antimicrobial properties of THERMOLAST® M

Biological contaminants are a major cause of spoilage of pharmaceutical products. The advantage with THERMOLAST® M TPE compounds is that they can be sterilized using methods such as EtO gas, superheated steam (134°C), γ -gamma ray treatment (2 x 35 kGy), β -ray (electron beam) treatment (2 x 35 kGy). Thus, these compounds are suited for applications like seals and valves in bottles for pharmaceutical storage, as well as for closures, septum, caps, infusion caps and ampoules in pharmaceutical packaging. The compounds can also be used in applications related to the process of transfer and filling in pharmaceutical industries.

Material performance for cost

The THERMOLAST® M TPE is developed with optimum productivity and cost-effectiveness in mind. Aside from the materials' ample range of application possibilities, other features are the cost-effective molding process and short cycle time advantage for injection and two-component injection molding and extrusion processing, which allow manufacturers to boost their productivity. As well, the THERMOLAST® M TPE show excellent adhesion to various polymers such as PP, PE, COC, ABS, PS, PC, PET and PA.

Optimum purity with the Medical Service Package

KRAIBURG TPE provides a Medical Service Package that is orientated to delivering the highest quality standards of its TPE compounds, which are free of intentionally added heavy metals, latex, PVC and phthalates.

As well, the production of the compounds is permanently assigned in a separate processing unit, with the constant manufacturing process recorded in US FDA Drug Master Files (DMF).

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Furthermore, the medical service package guarantees a 24-month supply of the compounds, allowing for supply security and long-term use by pharmaceutical packaging processors.



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For high-resolution photography, please contact Bridget Ngang
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About KRAIBURG TPE

KRAIBURG TPE (www.kraiburg-tpe.com) is a global manufacturer of thermoplastic elastomers. From its beginning in 2001 as a subsidiary of the historical KRAIBURG Group founded in 1947, KRAIBURG TPE has pioneered in TPE compounds, today being the competence leader in this industry. With production sites in Germany, the U.S., and Malaysia, the company offers a broad range of compounds for applications in the automotive, industrial, consumer, and 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. In 2019, KRAIBURG TPE, with 645 employees worldwide, generated sales of 190 million euro.