

Press Release

The rise of TPE in the medical industry

Kuala Lumpur, Feb 2020

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The rise of TPEs in the medical industry

KRAIBURG TPE, a recognized global manufacturer in superior TPE compounds, offers a range of the THERMOLAST® M TPE series for the medical industry.

Technological breakthroughs in the medical sector have provided more efficient, safer and more affordable systems of healthcare delivery. The rising graying population and changing healthcare needs, to combat newer and stronger viruses, are requiring novel techniques in diagnostics and therapies. These include innovative medical devices for prevention, treatment, and monitoring of health disorders and disabilities.

KRAIBURG TPE, a global TPE manufacturer of a wide range of thermoplastic elastomer products and custom solutions for multiple industries, offers high-quality custom engineered THERMOLAST® M TPE materials. These are envisioned for medical device applications, including components of medical devices, disposables (e.g., syringes or tubing); as well as for pharmaceutical applications. These compounds are suited for portable medical devices especially used in the homecare setting.

Making safety a criteria

The THERMOLAST® M range is specially developed for applications in the medical, pharmaceutical and diagnostic sectors, such as in devices that are used for direct contact with body fluids and blood.

For the processor and the end customer, the change control management system ensures that fundamental requirements are met.

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The THERMOLAST® M series meet the requirements of the VDI guideline 2017 for medical grade plastics (MGPs) issued by the Association of German Engineers (VDI) and the Reach and RoHS standards.

The TPE compounds are free of animal-based ingredients; free of latex, PVC, and phthalates; and they are produced without the use of heavy metals.

Furthermore, the compounds are tested according to DIN ISO 10993-5 Cytotoxicity; DIN ISO 10993-4 Haemolysis, indirect blood contact; DIN ISO 10993-10 Intracutaneous irritation and DIN ISO 10993-11 Acute system toxicity; USP Class VI Extraction.

Easy processing and design features

The THERMOLAST® M range can be processed through extrusion or injection molding; and are sterilizable at autoclave 134 °C, gamma radiation 2x35 kGy and EtO.

Other features of the compounds include the soft touch feel. For example, the MC/TL series offers pleasant soft touch feel that is preferred for applications such medical cap and infusion bag, valves, dental guard, orthodontic appliance, mouth bracelet, bracket, menstrual cup, surgeon pencil grip and lung trainer device.

The MC/RS series has an outstanding resealing property that is essential in applications, including infusion stoppers in blood collector caps, pierced membranes, and more.

Customer satisfaction at the fore

KRAIBURG TPE strives to maintain the standards of its products by providing a unique service package that focuses on our customer needs in constantly recording manufacturing process in the drug master file (DMF); and by guaranteeing 24-month supply security and purity of our raw materials through the commitment of our suppliers and a dedicated

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production unit for THERMOLAST® M to ensure the quality, safety and reliability of our TPEs.



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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 2018, KRAIBURG TPE, with 640 employees worldwide, generated sales of 189 million euro.