

Press Release

TPEs grit their teeth for dental equipment

Kuala Lumpur, June 2021

Page 1 of 4

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TPEs grit their teeth for dental equipment

KRAIBURG TPE, a global TPE manufacturer of a wide range of thermoplastic elastomer products and custom-engineered TPE solutions, offers the THERMOLAST® M and THERMOLAST® K series of compounds to meet the safety and design criteria required for oral care devices.

If the eye is the window to the soul, the mouth is the gateway to overall health. Dental health care and oral hygiene solutions are vital. New dental solutions and technologies are being developed to advance oral care, including interdental devices such as smart toothbrushes, water flossing, elastomeric sticks, oral irrigators, dental implants, digital dentistry, teledentistry, and more. These new devices provide patient comfort and access to oral care.

New materials such as thermoplastic elastomers (TPEs) support the expansion of the dental technology sector where demand for more ergonomic, functional and cost-effective devices is growing.

KRAIBURG TPE, a global TPE manufacturer of a wide range of thermoplastic elastomer products and custom solutions for multiple industries, offers high quality and custom-engineered compounds that can provide dentistry equipment designers and manufacturers the flexibility to innovate.

Easy processing, excellent mechanical properties

KRAIBURG TPE's compounds possess the exact mechanical properties and easy processing characteristics suitable for dentistry equipment applications.

The TPEs can enable equipment manufacturers and designers to achieve flexible, durable, products with low surface friction; chemical, abrasion and scratch-resistance; and soft-touch feel to meet the current market demand.

Available in various pre-coloration options, the compounds can be processed through injection molding and extrusion. The TPEs also have good adhesion

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Press Release

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Page 2 of 4

to PP, PE and polar thermoplastics, allowing for flexibility in innovating products.

The TPEs are suitable for applications in an array of dental equipment such as hand grip of hand pieces and dental mirrors, dental retractors, mouth props, pluggers, surgical aspirators and more.

Safe, reliable materials

KRAIBURG TPE's THERMOLAST® M series complies with the VDI 2017 and ISO 10993-5 standard and is also listed in the Drug Master File.

The TPEs are sterilisable, are free of latex, PVC, heavy metals and phthalates, making them excellent for use in dental equipment applications.

This compound series also has optimum safety with excellent control management in KRAIBURG TPE's Medical Service Package, which guarantees optimum raw materials purity and solid 24-month supply security.

Meanwhile, selected compounds from the THERMOLAST® K series comply with food grade standards such as the Commission Regulation (EU) No 10/2011, the Code of Federation Regulation Title 21 (21CFR) of the US Food and Drug Administrator (FDA), as well as with China GB (GuoBiao) standards.

Press Release

TPEs grit their teeth for dental equipment

Kuala Lumpur, June 2021

Page 3 of 4



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For high-resolution photography, please contact Bridget Ngang

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Press Release

TPEs grit their teeth for dental equipment

Kuala Lumpur, June 2021

Page 4 of 4

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About KRAIBURG TPE

KRAIBURG TPE (www.kraiburg-tpe.com) is a globally operating 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 advantages in processing and product design for 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 2020, KRAIBURG TPE, with over 650 employees worldwide, generated sales of €184 million.