

## Press Release

**TPEs for dynamic diving equipment**

**Kuala Lumpur, October 2020**

**Page 1 of 4**

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### TPEs for dynamic diving equipment

**KRAIBURG TPE, a recognized global leader in superior TPE compounds formulates THERMOLAST® K for dynamic diving equipment applications.**

Engaging in diving and other recreational underwater sports is on almost everyone's bucket list. Scuba diving is not only for the enjoyment of underwater vista, it also provides therapeutic, rehabilitative and physical workout benefits, as well as enhancing awareness on the underwater ecosystem and caring for the environment.

For an optimum underwater experience, essential diving gear must provide adequate protection against extreme temperatures; be able to withstand underwater pressure; be lightweight and fit comfortably.

Thermoplastic elastomer (TPE) materials meet the requirements in the manufacture of dynamic diving equipment and gear. These include flexibility, durability, versatility in design and colorization, safety, recyclability, and more.

KRAIBURG TPE's innovative THERMOLAST® K TPE is just the perfect compound ideal for diving equipment applications.

#### Media Contact

#### Right fit for underwater gear

Our select THERMOLAST® K TPE have excellent UV and weather resistance that suits a diverse range of diving equipment components. The compounds can be used to manufacture diving masks, fins, regulators, gloves, dive computers, snorkels, underwater lights and more, all of which are constantly exposed to sunlight and sea water.

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## Press Release

**TPEs dive into diving equipment**

**Kuala Lumpur, October 2020**

**Page 2 of 4**

In addition, it is sebum resistant for applications requiring a firm but user-friendly grip; and excellent sealing for gaskets and sealing applications.

### **Easy processability of compounds**

THERMOLAST® K TPE is also suitable for underwater diving lamp applications, whereby the housing is molded from PP and overmolded with the TPE cover and seal.

Diving regulators can have a TPE cover that provides a molded-in seal and weight reduction. Since the regulator is smaller, it allows the diver to breathe easily.

For diving fins, the TPE compounds add a springy touch. The diver requires less energy to flap through water and it improves a diver's speed. The compounds also provide the perfect sealing in watercraft dry compartments.

### **Multifunctional solution for superb overall design**

KRAIBURG TPE's innovative TPE compounds provide consistent colorability and excellent mechanical properties to deliver the custom requirements of product designers and developers. Meanwhile, end users can benefit from the specialized fit, feel and look of the products.

Some of the recommended TPEs in the THERMOLAST® K are the GP/FG and the FC/CS compounds.

The GP/FG series has a soft touch surface and non-sticky haptic feel. It is suitable for applications like diving fins, tank bankers, etc. Meanwhile, the FC/CS series has an excellent compression set, which is important for diving equipment, especially since underwater pressure is high. Its soft touch surface

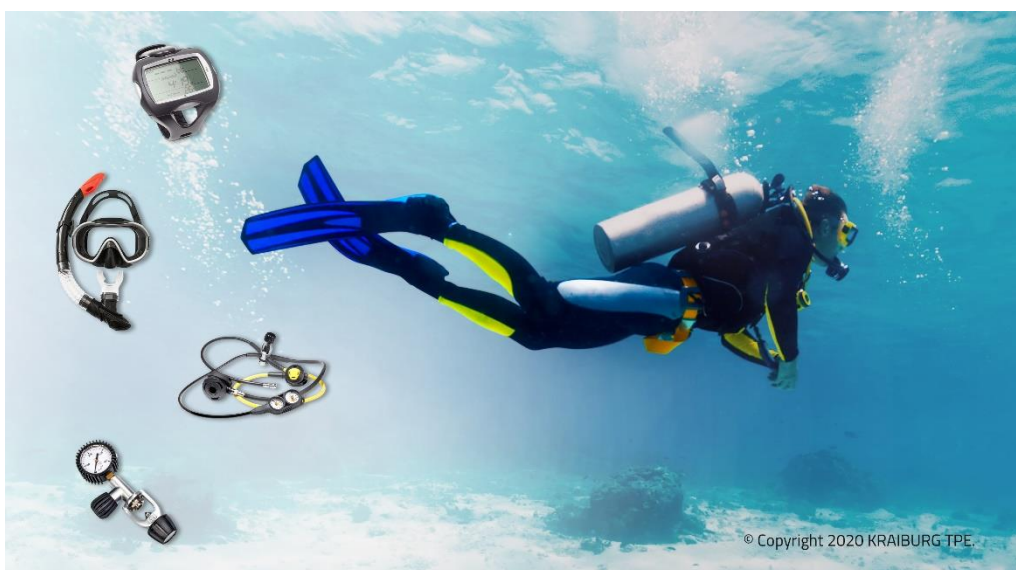
## Press Release

**TPEs dive into diving equipment**

**Kuala Lumpur, October 2020**

**Page 3 of 4**

and hysteresis makes the compound suitable for applications such as diving masks, diving computers, diving gloves, and more.



**(Photo: © 2020 KRAIBURG TPE)**

For high-resolution photography, please contact Bridget Ngang ([bridget.ngang@kraiburg-tpe.com](mailto:bridget.ngang@kraiburg-tpe.com) , +6 03 9545 6301).

## Press Release

TPEs dive into diving equipment

Kuala Lumpur, October 2020

Page 4 of 4

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### About KRAIBURG TPE

KRAIBURG TPE ([www.kraiburg-tpe.com](http://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.