

Press release

Strong adhesion from the very start

Waldkraiburg, October 2017

Page 1 of 4

KRAIBURG TPE GmbH & Co. KG
Friedrich-Schmidt-Str. 2
84478 Waldkraiburg
Germany

Phone +49 8638 9810-0
Fax +49 8638 9810-310

info@kraiburg-tpe.com
www.kraiburg-tpe.com

Strong adhesion from the very start

New TPE series for 2-component automotive applications with EPDM

At this year's Fakuma in Friedrichshafen KRAIBURG TPE will present a new series of Thermoplastic Elastomers that were specially developed for excellent adhesion and UV resistance in two-component applications with ethylene propylene diene monomer rubber (EPDM). The new compounds of the THERMOLAST® K family are intended primarily for automotive applications such as EPDM window trim and sealing profiles with moulded TPE corner joints and end elements.

The automotive industry is the largest and fastest-growing market for Thermoplastic Elastomers (TPE). New applications exist for the segment of door and window seals, which require dimensionally stable corner joints and end elements. This has been achieved in the past with styrene-butadiene compounds (SBC) and crosslinked thermoplastic vulcanized (TPV) rubber. The cost-effectiveness of TPV is limited, however, due to diverse factors in the manufacturing process, in particular the window trim. The EPDM adhesion series from KRAIBURG TPE offers a good alternative with added value.

"The production of diverse sealing frames and window trims of EPDM profiles with molded corner and end elements requires new material solutions," says Michael Pollmann of KRAIBURG TPE. "The versatility of our TPE technology has made it possible for us to develop a competitive material that solves the phase separation problems of the systems that are currently used. In addition, we have the market expertise and customer orientation for fast implementation of such innovative two-component applications."

Press office

Europe, Middle East & Africa

Simone Hammerl

Public Relations EMEA

Phone: +49 8638 9810-568

simone.hammerl@kraiburg-tpe.com

International

Marlen Sittner

Head of Corporate Marketing

Phone: +49 8638 9810-272

marlen.sittner@kraiburg-tpe.com

Press release

Strong adhesion from the very start

Waldkraiburg, October 2017

Page 2 of 4

The core requirements for corner joints and end elements of window trim profiles include excellent adhesion and weathering resistance, which are ensured by the long-term process stability of the TPE/rubber connection. It is also necessary to minimise the injection temperature of the TPE solutions in order to reduce the cooling and cycle times of the 2-component elements.

The AD/EPDM/UV¹ series fulfils all of these requirements by combining optimal adhesion properties with long-term resistance to UV radiation and thermal effects with a hardness of 70 Shore A. Compared to competitive materials, these special TPE products exhibit superior stability. The EPDM profile is neither compressed, nor destroyed or deformed. The compounds feature uniform color fastness of EPDM and TPE and there is no tendency of stickiness or phase separation.

KRAIBURG TPE has examined the suitability of the new materials in comprehensive adhesion, weather exposure and thermal ageing tests. The processing properties and stability were optimized in close cooperation with the machine and mould manufacturers. "Our tests showed that the cleanliness of the EPDM contact surfaces to the TPE are crucial in these two-component elements and that freshly cut seal profiles result in optimal adhesion."

The AD/EPDM/UV technology is already being tested by several customers in the automotive industry.

KRAIBURG TPE will be present at Fakuma 2017 from 17 to 21 October in Hall B5, Stand 5303.

¹ AD = adhesion, EPDM = ethylene propylene diene monomer rubber, UV = UV resistance.

Press release

Strong adhesion from the very start

Waldkraiburg, October 2017

Page 3 of 4

About KRAIBURG TPE

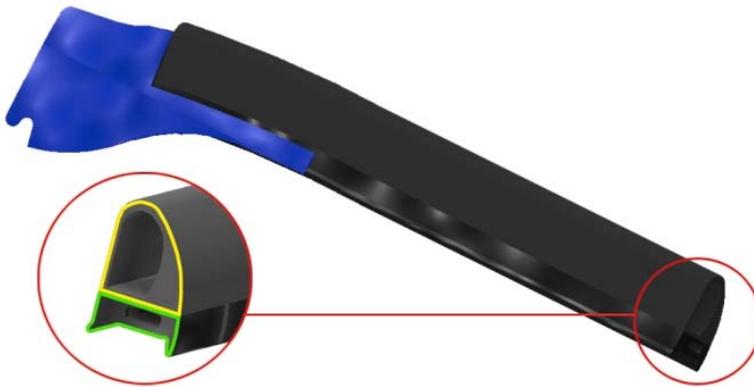
KRAIBURG TPE (www.kraiburg-tpe.com) is a global manufacturer of thermoplastic elastomers. From its beginning in 2001 as subsidiary of the historical KRAIBURG Group founded in 1947, KRAIBURG TPE has pioneered in TPE compounds, today being the competence leader in this industry. With production sites in Germany, the US, and Malaysia the company offers a broad range of compounds for applications in the automotive, industrial, consumer, and for the 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 as well as in Malaysia and holds ISO 9001 and ISO 14001 certifications at all global sites. In 2016, KRAIBURG TPE, with over 550 worldwide employees, generated sales of 167 million euros.

Press release

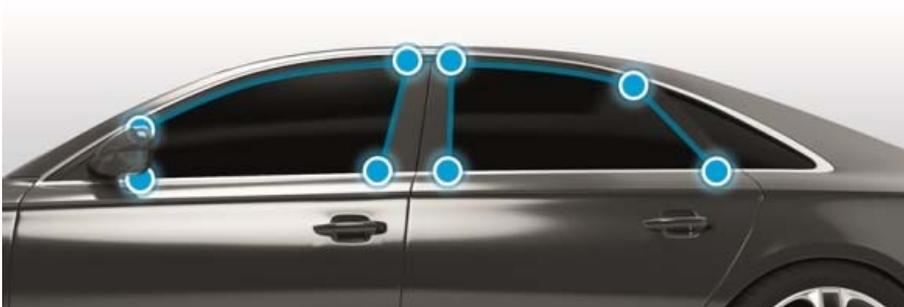
Strong adhesion from the very start

Waldkraiburg, October 2017

Page 4 of 4



Window trim and sealing profiles made of EPDM with molded THERMOLAST® K corner joints and end elements (Picture: © 2017 KRAIBURG TPE)



The new TPE series combines excellent weather resistance and adhesion to extruded and foamed EPDM profiles. (Photo: © 2017 KRAIBURG TPE)

This press release and relevant photography can be downloaded from www.PressReleaseFinder.com.