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PRESS RELEASE

FKuR at Fakuma 2018 **Heat-resistant PLA compounds and versatile bioplastics for injection molding, thermoforming and extrusion**



Typical applications of the Bio-Flex® S 7514 PLA compound, which has been optimized for flowability and heat resistance, include catering items such as cutlery. Image © FKuR

Willich/Germany, July 2018 - At Fakuma 2018, FKuR will be presenting its broad portfolio of bio-based thermoplastics for injection molding, thermoforming and extrusion, including the advanced injection molding grade Bio-Flex® S 7514 as well as bio-based TPE and PP grades for a variety of applications.

Improved flowability and heat resistance

Bio-Flex® S 7514 is a biodegradable compound based on polylactic acid (PLA), which has been optimized by FKuR for particularly comfortable and efficient processing. Thanks to its good flowability (MFR =



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27 g/10 min), it is also suitable for use in multi-cavity molds and the production of parts with longer flow paths. The high heat resistance (Vicat A = 110 °C), which is achieved without hot tool, allows for shorter cycle times. Typical examples of use are catering applications such as cutlery. Bio-Flex® S 7514 has a bio-based content of 75% and is available in both natural and white. Other colors can be achieved by using a multiplicity of masterbatches.

Bio-based TPE and PP grades

The variety of bioplastics from FKUR also includes bio-based thermoplastic elastomers (TPE) as well as compounds based on polypropylene (PP).

Terraprene®, the bio-based TPE compounds for extrusion and injection molding, have a bio-based content of 40% to 90%. They offer the same mechanical properties as their fossil fuel based counterparts and can be processed on existing production equipment and tools. It is also possible to produce complex components using 2K injection molding. Terralene® PP is a PP compound with a bio-based carbon content of approximately 35% (ASTM D 6866). In injection molding and in profile extrusion, it is a true drop-in solution because its performance and processability are comparable to those of conventional PP grades.

360 degree service

As a full-range supplier with a broad product portfolio, FKUR also advises on the selection of the most suitable bioplastics for specific requirements and offers extensive technical support, from the project implementation phase through to advice on marketing, with special consideration of the bioplastic aspect.

About FKUR:

The FKUR group is a medium-sized, privately held group of companies focusing on the development, production and marketing of high-quality special compounds and the distribution of plastic specialties.

The group currently includes FKUR Kunststoff GmbH, one of the leading suppliers of bioplastics compounds for flexible packaging solutions and engineering applications, and FKUR Polymers GmbH, specializing in the development and production of TPE and PP / PE compounds.

The product portfolio of the FKUR group comprises the FKUR Kunststoff GmbH product groups marketed as Bio-Flex®, Biograde®, Fibrolon®, Terralene®, Terraprene® as well



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*as the FKUR Polymers brands Macoprene®, Macolen® PE and Macolen® PP.
The distribution business comprises the biobased PE I'm green™ of Braskem, the
biobased PET Eastlon of the FENC group, and the biobased PA VESTAMID® Terra of
Evonik.*

Further information: www.fkur.com and www.fkur-polymers.com

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