



# FKUR KUNSTSTOFF GMBH

## Foundation

- 2003

## Branches

- Development, Production & Distribution of Bioplastics
- Biodegradable & compostable resins
- Bio-based resins

## Key materials

- Biobased and compostable resins for all processing methods and applications for your product of choice

## Compounding products

- Bio-Flex®
- Biograde®
- Fibrolon®
- Terralene®

## Distribution products

- Green PE (Bio-PE)
- Globio (Bio-PET)
- Vestamid® Terra (Bio-PA)



plastics - made by nature!®

## Development – Production – Distribution

We follow our commitment with the slogan “Plastics – made by nature!”. As a leading producer of customized bioplastics we offer a broad range of biobased and compostable resins. Benefit from our variety of compounds as well as from our global distribution program. As the Bioplastic Specialist we provide innovative solutions for all processing methods and applications for your product of choice.

FKuR offers a broad portfolio of various extrusion and injection molding grades. Depending on the grade, FKUR products guarantee a long service life or are biodegradable and break down into naturally occurring, harmless base materials.

FKuR bioplastics are complete products which do not require any further modification. They can be processed on existing equipment as a drop-in-solution.

## Compounds made by FKUR

### Bio-Flex® – full flexibility

Products for a variety of flexible applications

Bio-Flex® is a bioplastics family of products suitable for flexible applications, which can be converted using a wide variety of processing methods. All Bio-Flex® products are completely biodegradable and are based entirely or partially on natural raw materials.

The main applications for Bio-Flex® include a wide selection of flexible film applications, such as agricultural, household and hygiene films. Furthermore, it is possible to produce thermoformed articles and injection molded products using Bio-Flex®.

### Biograde® – strong as wood

Products for a variety of rigid applications

Biograde® is a family of bioplastic products based on cellulose acetate for injection molding, sheet and profile extrusion. Cellulose, the base for the production of cellulose acetate, is the most easily accessible and renewable resource on the planet. Biograde® is predominantly a renewable and fully biodegradable material alternative for rigid applications.

The main applications for Biograde® are for a range of technical parts. As a result of its scratch-resistant and wear-resistant surface, it is also suitable for the production of highly stressed casings. The high heat resistance also meets the requirements for safety in use of the electronics and household articles industry.

### Fibrolon® – perfect symbiosis between wood and plastics

Fibrolon® is a fantastic combination of plastic and wood, which are two very commonly used materials. The high surface quality and defined wood structure gives components made from Fibrolon® a unique charm and character. It looks like wood and feels like wood, but unlike wood itself, Fibrolon® can also be processed into complex structures and design elements.



Shopping bag – Bio-Flex®



Mouse & cups – Biograde®



## Terralene<sup>®</sup> – sugar cane at its finest

Terralene<sup>®</sup> is a tailor-made family of polyethylene compounds based on renewable raw materials. All Terralene<sup>®</sup> grades are based on sugar cane as a raw material thus making a valuable contribution to the conservation of fossil resources.

Due to the durability of Terralene<sup>®</sup> it is possible to produce products designed for a long service life. The material is processed on existing production equipment without any adjustments. After their use, Terralene<sup>®</sup> products can be integrated into existing polyethylene recycling streams.

## Broad Distribution Portfolio:

Following FKUR's philosophy "Plastics – made by nature!" and its commitment to sustainable raw materials, FKUR has been appointed as distribution partner for a variety of biobased plastics.

## Green PE (Bio-PE)

In comparison to conventional polyethylene, the main difference is that the ethanol used for Green PE is not produced using crude oil, but instead is derived from sugarcane. Therefore each ton of Green PE produced captures more than 2 tons of CO<sub>2</sub> thus helping to reduce harmful greenhouse gas emissions. The current product portfolio comprises of several HDPE, LDPE and LLDPE grades. These are particularly suitable for extrusion blow molding, injection molding and film extrusion.

## GLOBIO (Bio-PET)

Bio-PET contains up to 30% renewable resources due to the use of bio-based MEG. The basis for this bio-based MEG is ethanol manufactured from Brazilian sugar cane rather than using ethanol produced from oil. GLOBIO is a 'drop-in' solution and is therefore able to replace conventional PET in a wide variety of applications. Typical applications for GLOBIO are bottles, films, automotive and other injection molding applications.

## VESTAMID<sup>®</sup> Terra (Bio-PA)

Produced by Evonik, VESTAMID<sup>®</sup> Terra is a new group of polyamides based on renewable raw materials. VESTAMID<sup>®</sup> Terra is manufactured from the castor bean (*Ricinus communis*) and its oil derivatives.

These Biopolyamides are long-lasting, durable high-performance polymers which can be used in a variety of technically demanding applications.

VESTAMID<sup>®</sup> Terra material is typically processed using injection molding and extruded to produce fibres and films. Currently there are three product lines available within this new group of polyamides:

- VESTAMID<sup>®</sup> Terra HS (PA610)
- VESTAMID<sup>®</sup> Terra DS (PA1010)
- VESTAMID<sup>®</sup> Terra DD (PA1012)

Our product solutions provide our customers with an opportunity to implement their individual sustainability goals. Please do not hesitate to contact us for further information.



Soap bottle – Green PE



Crate – Terralene<sup>®</sup>

## Contact

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