



The Bioplastic Specialist

We make circular plastic products work

FKUR
plastics - made by nature!



NATURE AS GUIDELINE.
PLASTICS AS PASSION.
CUSTOMERS AS PARTNERS.

Our mission

Plastics are part of our modern life in every form. There are hardly any limits to both properties and applications. We have dedicated ourselves to these unique materials since our founding in 1992. We live and breathe innovation – and in doing so we are driven by the desire for more sustainability and a mindful approach to our environment.

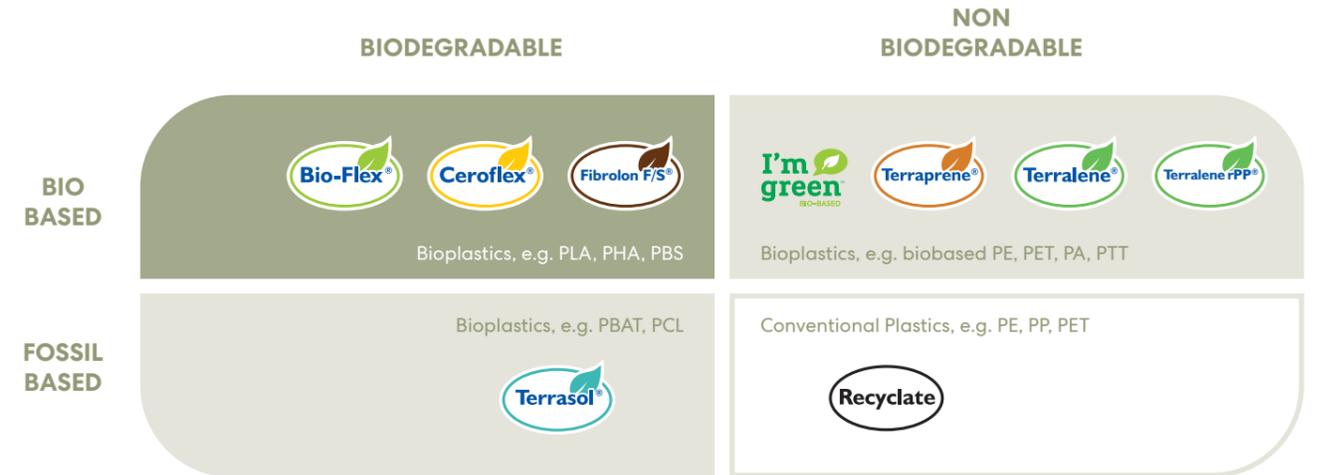
We are convinced that the future of plastics must be carbon neutral, for the protection of our planet and a more responsible use of its limited resources. With our high-quality bioplastic granulates, recycles and services we provide our partners with the key to a viable circular economy.

The Bioplastic Specialist

Building paths to sustainability

Using nature as guideline along with our passion for plastics, we have developed a unique range of bioplastic and circular resins. Whether biobased, biodegradable or recycled resins, our customers may choose from the world's most comprehensive portfolio of sustainable resins designed for a great variety of processes and applications.

We work in close partnership with our customers to ensure that our resins are key to their success and a sustainable future. With our 360° approach, our customers benefit from a one-stop solution. In this way, we guarantee the use of the optimal raw material providing excellent processing, and support our customers in finding the right marketing approach.



Plastics care for Future – thinking tomorrow's solutions today

Sustainability starts off with raw materials. That is why we at FKUR focus on a maximum of renewable resources in our resins along with optimal recyclability, but without losing

sight of the processability or material properties. With such pioneering solutions, we make a clear contribution to circular economy.

Biomass as a raw material – sustainable by nature

Nature shows how it's done. Plants take water, CO₂ and sunlight to produce carbon as their essential building block. This renewable carbon is ideally kept in the loop,

giving us the chance to permanently reduce CO₂ emissions and make plastic products more environmentally friendly.

Circular Economy – We know the right turn

Produce, consume, throw away – this concept is a dead end. Reduce, reuse, recycle, close the loop – just as in nature these are the keys to a more sustainable future. To meet global challenges and ensure the preservation of our planet, we need to move away from the idea of single use in all areas.

For this reason, we at FKUR develop innovative plastics that conserve finite fossil resources and thus reduce environmental

pollution. Above all, FKUR stands for premium product quality as well as first-class advice and leadership in the circular economy.

This enables our partners to take advantage from our decades of international and multi-sector experience in the technical development, production and distribution of renewable raw materials and recyclates.



Recyclate – Valuable resource and important feedstock

High-quality recyclates for injection molding, blow molding and extrusion

Our recyclates give products a second life. Because one thing is clear to us, waste is valuable and must be recycled systematically and effectively.

Our high-quality recyclates from post-consumer (PCR) or post-industrial waste (PIR) can be reused in a wide range of end products. They can replace virgin materials in parts or even completely. Customers can choose from a wide portfolio of injection molding, blow molding and extrusion grades.



Advantages

- sustainable – made from post-consumer or post-industrial waste
- high quality – quality at virgin material level
- certified – according to EuCertPlast
- versatile – grades for various processes and applications
- individual – properties can be customized



Terralene® – Sugar cane at its finest

Biobased polyethylene compounds for extrusion and injection molding

Terralene® are compounds based on polyethylene (PE) made from renewable raw materials. By using the renewable raw material sugar cane, fossil resources are conserved, and CO₂ emissions are effectively reduced.

All Terralene® grades can be processed on standard machines and are suitable for injection molding, blow molding and film extrusion. Products made from Terralene® are 100% recyclable in existing streams. In addition, Terralene® includes natural fiber reinforced compounds, as well as biobased PP compounds and bio-recyclate hybrids.



Terralene® PP / rPP – The hybrid compound

PP virgin or recycled material combined with renewable raw materials

Terralene® PP & rPP are hybrid-compounds that perfectly combine virgin PP or high-quality recyclates with renewable raw materials.

Terralene® PP & rPP grades have similar performance and processing properties to fossil PP grades and are easy to process on existing injection molding equipment and molds. The good recyclability of this novel material combination is confirmed by independent institutes.



Advantages

- high content of renewable resources
- 100% recyclable
- versatile and excellent processing
- resistant to oils, fats and chemicals
- dishwasher safe and suitable for freezing
- food safe



Advantages

- use of virgin PP or PP recyclate
- post-consumer PP-recyclate (PCR) or post-industrial PP-regenerate (PIR)
- biobased content of up to 35% (BCC)
- sustainable use of valuable resources
- processable on existing PP molds
- mechanical properties comparable to fossil PP

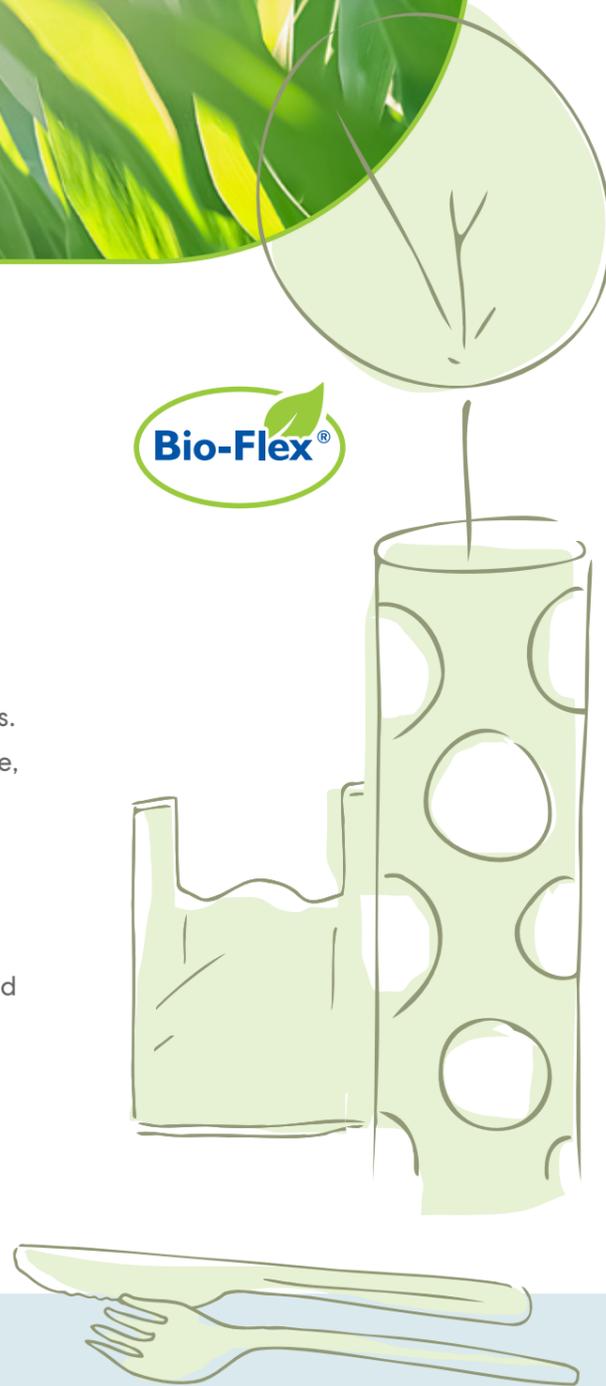


Bio-Flex® – Full flexibility

Biobased compounds for flexible and circular products

Bio-Flex® is a family of biodegradable and certified compostable plastics based on renewable raw materials. The natural raw material sources of these PLA blends are, e.g., corn, sugar cane or castor oil.

Products made from Bio-Flex® perform just as well and are just as resilient as products made from fossil standard plastics. Main applications include injection molded products or thermoformed items in addition to various flexible film applications.

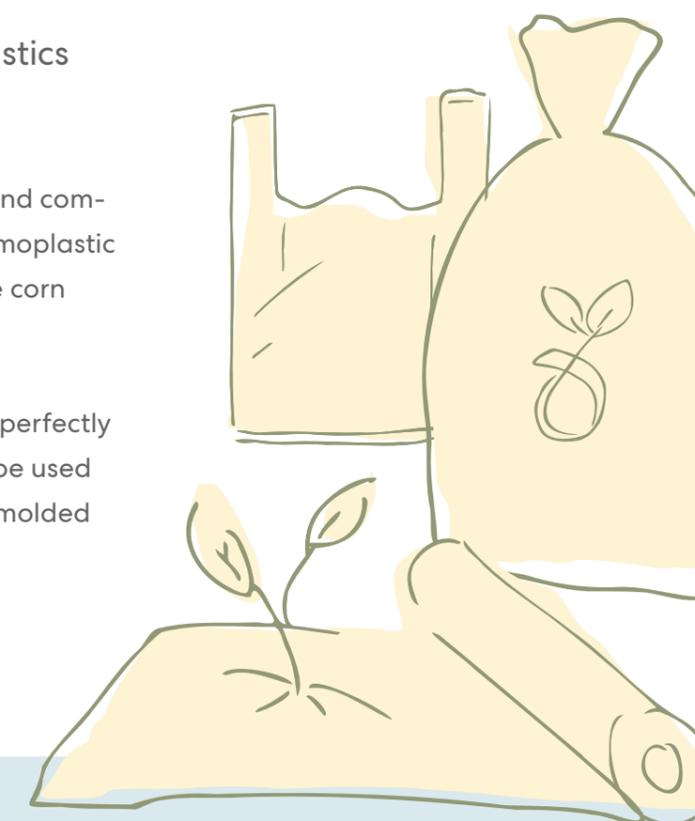


Ceroflex® – Bioplastics are our strength

Starch-based, compostable bioplastics for films

Ceroflex® are innovative, quickly degradable and compostable bioplastic compounds based on thermoplastic starch. To produce Ceroflex® we use GMO-free corn starch from Europe.

As a ready-to-use compound Ceroflex® is also perfectly processable with existing equipment and can be used to produce a wide variety of films or injection-molded articles.



Advantages

- based on renewable raw materials
- biodegradable and certified home or industrial compostable
- excellent processability
- dishwasher-safe grades available
- good dyeing, printing and welding properties
- food safe



Advantages

- based on renewable raw materials
- made from European non-GMO corn starch
- certified home or industrial compostable
- composts particularly quickly
- high breathability

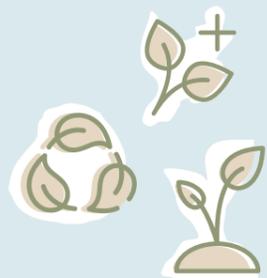


Fibrolon® – Perfect symbiosis

Wood Plastic Composites for injection molding and extrusion

Fibrolon® is a fantastic combination of plastic and wood. It looks like wood, but can be processed like plastic on existing extrusion or injection molding equipment. Depending on the application fossil polypropylene or biobased, degradable bioplastics serve as polymer base.

In addition to wood fibers, other plant fibers such as miscanthus, cork or bamboo are used as reinforcing materials. The high surface quality and defined wood structure give components made of Fibrolon® an individual character. For sustainability that becomes visible!



Advantages

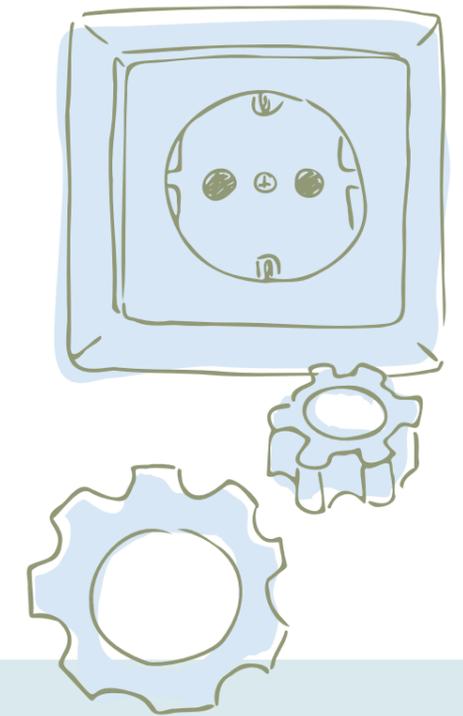
- high content of renewable resources
- biodegradable grades available
- high strength and stiffness
- processable on existing equipment
- attractive wood surface
- sustainability made visible

Biograde® – Performance Bio-Compounds

For advanced injection molded products with long service life

Biograde® is a family of high-performance compounds made from biobased plastics. All grades are tailored to their specific application. Impact modified, UV stabilized and glass fiber reinforced grades are offered as standard.

The main areas of application are in the field of technical parts. Due to their high performance and durability, all Biograde® types are designed for a long service life but are not biodegradable.



Advantages

- based on renewable raw materials
- high stiffness and strength
- high heat resistance
- excellent flowability
- weather-resistant, impact-resistant and reinforced grades available
- application-oriented additivation



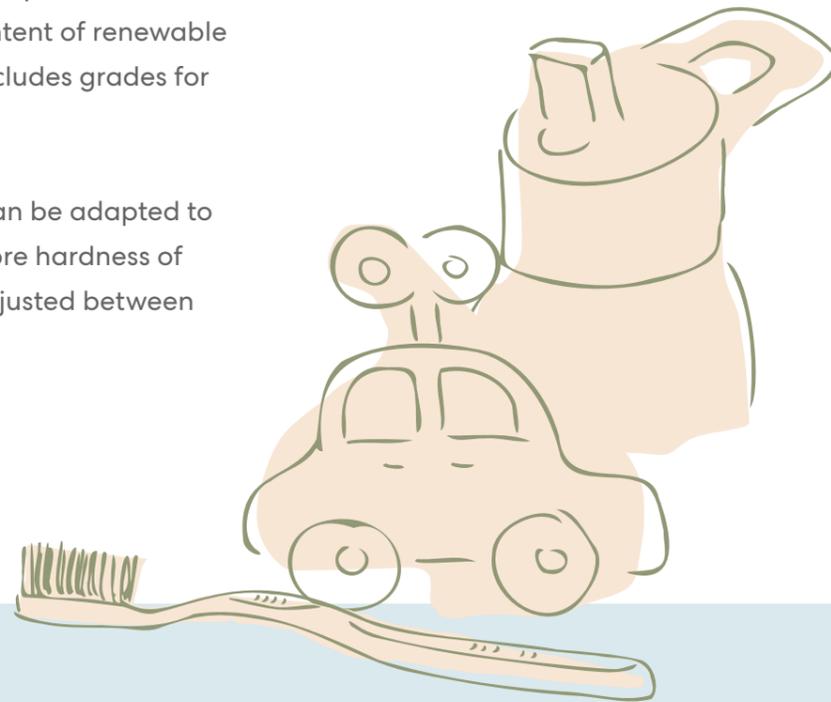
Terraprene® – Biobased TPE Compounds

For products with a special “touch-and-feel” experience



Terraprene® are high-quality thermoplastic elastomer (TPE) compounds with variable content of renewable resources. Our Bio-TPE portfolio includes grades for soft, smooth or non-slip surfaces.

Likewise, flexibility and hardness can be adapted to the respective application. The Shore hardness of Terraprene® can be individually adjusted between Shore A40 and Shore D40.



Advantages

- based on renewable raw materials
- low odor
- good abrasion resistance
- oil-free grades available
- shore hardness individually adjustable
- recyclable in closed loop systems

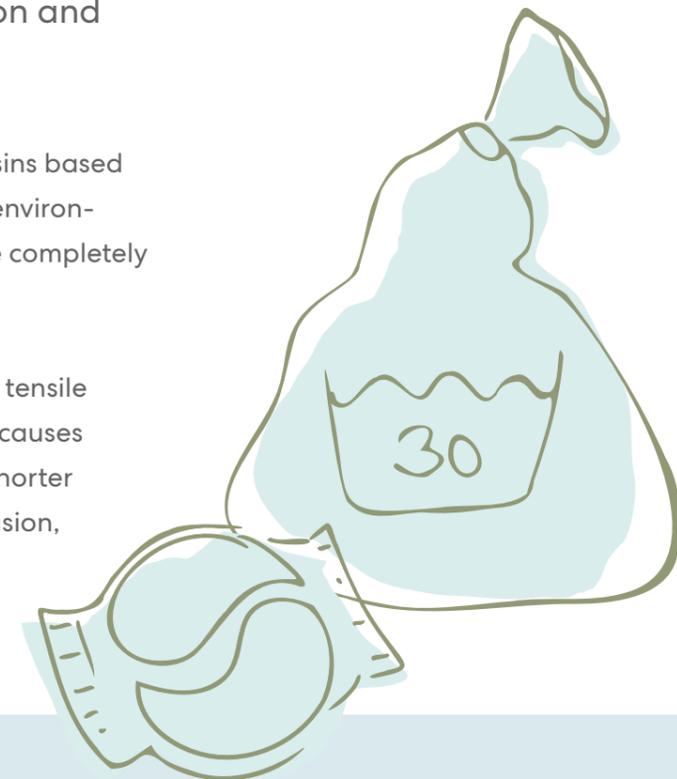
Terrasol® – Biodegradable, water-soluble PVOH Compounds

Water-soluble plastics for extrusion and injection molding



Terrasol® are hot- and cold-water soluble resins based on polyvinyl alcohol (PVOH). In an aqueous environment, products made from Terrasol® dissolve completely and degrade without leaving residues.

Terrasol® grades are characterized by a high tensile strength and elasticity. The high crystallinity causes less shrinkage and at the same time allows shorter cycle times. Terrasol® is suitable for film extrusion, injection molding as well as 3D printing.



Advantages

- water-soluble in defined temperature range of 5-70 °C
- biodegradable in dissolved state
- nontoxic
- excellent barrier against O₂ and CO₂
- resistant to chemicals, oils and greases

FKuR – Plastics care for Future®



FKuR The Bioplastic Specialist

Our team works passionately every day to make the world a little better. Our customers are always the focus of our 360° service approach. We know the right turn to more circular economy and offer an unbeatable range of different bioplastics and circular grades. Our customers benefit from our decades of global and cross-industry expertise in the development, production and distribution of renewable raw materials.

Successful products start with great ideas – get in touch with us!

FKuR Kunststoff GmbH
Siemensring 79 | 47877 Willich
Phone: +49 2154 9251-0
info@fkur.com | www.fkur.com



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