

# Sustainability Meets FUN –

Bioplastics for Toys



**FKU**  
plastics - made by nature!®

# Sustainable

Resins that conserve our limited, fossil resources and are easy to recycle

The world we live in is unique, exciting and full of surprises. Children discover their world in a playful way with toys that are fun and generate their curiosity and stimulate their imagination, all whilst withstanding countless adventures. A majority of toys today are made with plastic, but most of these are still petroleum-based. Sustainable bioplastics that are made from renewable raw materials offer an adequate and future-proof substitute. Our

bioplastics also combine sustainability with trend-setting material properties that help reduce harmful CO<sub>2</sub> emissions, thanks to renewable raw materials. Still every toy will have its day at some point, but thanks to our high quality resins, however, you can give toys made from our material a second life – either by passing them on to another home or by recycling broken toys effectively.





# Safe

## Resins that are BPA free and certified to DIN EN 71-3

As part of a child's development, not only do children explore with their hands, but they also explore with their mouths, therefore their toys must be free of toxic substances as well as high-standard and robust to withstand a child's curiosity.

At FKUR, we develop and produce sustainable bioplastic compounds 'Made in Germany'. We place high value on quality and optimum processability of our granulates and

we do not make any compromises for safety.

Our bioplastics for toys are BPA free and free from harmful properties and meet the requirements of DIN EN 71-3. With our 360° service, we advise and support you from your material selection, through to processing methods and support you in finding the right marketing strategies.



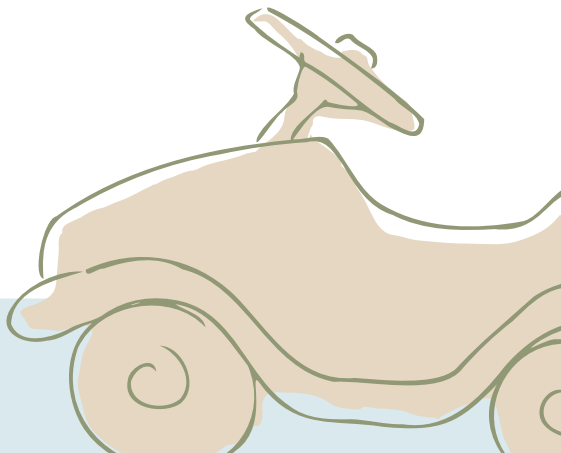


# Sophisticated

## Resins that excel in quality and processing

Using nature as guideline along with our passion for plastics, we have developed a unique range of bioplastic and circular resins. Whether it be biobased, biodegradable or recycled resins, our customers can choose from an incomparable range of sustainable resins designed for a wide variety of processes and applications. This diversity is reflected in the design options and surface finish; with countless variations between hard and soft, matt and glossy and possibilities to create unique

haptic experiences with embossed surfaces or even wood-like finishing - sustainability which becomes visible. By using FKUR bioplastics, you will achieve high-quality toys that will not only meet your exact design needs, but also meet the needs of children being able to have years of enjoyment.



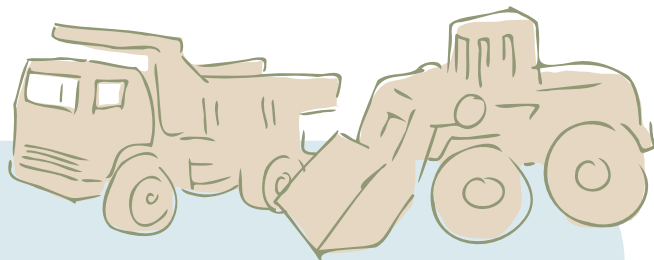


# Play with our bioplastics!

Make your own choice, combine materials and applications as you need and design sustainable, safe and sophisticated toys!

| Brand         | Biobased carbon content [%] | Biodegradable | Processing Method |               |                   |              |
|---------------|-----------------------------|---------------|-------------------|---------------|-------------------|--------------|
|               |                             |               | Injection molding | Thermoforming | Profile extrusion | Blow molding |
| Bio-Flex®     | 10–85                       | ✓             | xx                | xx            | xx                | x            |
| Fibrolon®     | 30–75                       | (✓)           | x                 | o             | x                 | o            |
| Terralene®    | 50–95                       |               | xx                | x             | xx                | xx           |
| Terralene® PP | 30–33                       |               | xx                | x             | xx                | x            |
| Terraprene®   | 20–80                       |               | xx                | o             | xx                | x            |
| Green PE      | 84–95                       |               | xx                | x             | xx                | xx           |
| Bio-PET       | 20                          |               | o                 | x             | o                 | x            |

xx = suitable,  
 x = limited suitability,  
 o = not recommended,  
 (✓) = not all grades





# FKuR – The Bioplastic Specialist

Our team works passionately every day to make the world a better place for the next generation. Our customers are always the focus of our 360° service approach. We know the right turn to creating a more circular economy and offer an unbeatable range of different bioplastics and circular grades. Each customer benefits 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 contact today!

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