



**SOLUTIONS AND MATERIALS
THAT MEET CIRCULAR ECONOMY REQUIREMENTS**



BIOTEC, one of the world's leading companies in the development and production of compostable bioplastics

B IOTEC develops and produces sustainable bioplastics made from plant-based renewable resources. The company established in 1992 has been a pioneer in research in bioplastics and is always striving to achieve the highest possible proportion of biobased raw material, improving processes and looking for the most relevant end-of-life options.

BIOTEC'S EXPERTISE:

- Developing new formulations and being able to combine the physical properties of our components to reach specified properties.
- Compounding expertise: **BIOPLAST®** specific properties not only depend on its composition, but significantly on the compounding technique used. **BIOTEC** has achieved outstanding proprietary know-how.
- Screw design: **BIOTEC** is able to design its own screw set-up in order to obtain new properties and has developed an exclusive pool of compounding units.

CIRCULAR ECONOMY AT THE HEART OF GROUP AND PRODUCT STRATEGY

- **BIOTEC** is a subsidiary of SPHERE, a family-owned French group and European leader in household packaging. SPHERE has implemented a deeply-rooted strategy in favour of a circular economy that is respectful of the environment. Since its foundation, the group has worked to:
- innovate and develop new sustainable and renewable material,
 - integrating an eco-design approach;
 - apply an environmentally responsible industrial policy.

70,000 tons capacity /

>30% of workforce in R&D /

250 + patents /





BIOPLAST® resins, a relevant answer to environmental issues

BIOTEC bioplastic resins are sold under the brand name of **BIOPLAST®**. They are all 100% biodegradable bioplastic resins made of starch and other plant-based sourced polymers. They are characterized by utmost functionality, environmental safety and highest quality. Our compounds not only offer alternatives to conventional plastics, they also provide additional properties such as biodegradability and compostability. Additionally, the use of renewable resources by industry effectively saves fossil resources and reduces the amount of greenhouse gas emissions.



→ Products made with BIOPLAST® resins comply with compostability requirements defined by EN 13432 and are certified as OK compost INDUSTRIAL and some grades even achieve OK compost HOME certification.

This European standard EN 13432 considers Biodegradability, Disintegration, Absence of heavy metals and Non-ecotoxicity.

MULTIPLE APPLICATIONS FOR BIOPLAST®:

Flexible and rigid applications range from refuse and shopper bags to ultra-light fruit and vegetable bags, packaging for foods, pharmaceuticals, healthcare, agriculture and many other products. BIOPLAST® resins can be used to manufacture products for the catering/fast food industry, foods and pharmaceuticals, healthcare, agriculture or the automotive industry.



BIOPLAST® 500

This plasticizer-free, thermoplastic material contains natural starch and other biologically sourced polymers. It has a soft touch and can be drawn down to below 15µm. BIOPLAST® 500 is suitable for processing by blown film extrusion to produce items that are completely biodegradable and with excellent mechanical properties and a good shelf life.

GENERAL APPLICATIONS:

- Ultra-light fruit and vegetable bags
- Refuse bags for the collection on bio-waste
- Agricultural films

Thanks to its OK compost HOME certification, the products made if BIOPLAST® 500 can be disposed of in a well-maintained domestic composting unit. The refuse bags and bin-liners made of this material are suitable for the collection of organic waste.



CHARACTERISTICS:

- Renewable and CO₂ savings: 50% biobased, GMO free starch.
- Biodegradable & Compostable according to EN 13432.
- Several end of life options: compostable, recyclable, incinerable.


BIOTEC®
BIOPLASTICS FOR A BETTER LIFE

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