

BF5002 Resin

Profile Extrusion Grade

Product Description

Natur-Tec® BF5002 biobased and compostable polymer resin is a fully biodegradable and compostable polymer resin compound designed for profile extrusion applications. It is produced using proprietary technologies and is intended to provide alternatives to conventional plastics. Natur-Tec® polymer resins are engineered for high performance and can be easily processed on conventional manufacturing equipment. Natur-Tec® BF5002 meets the requirements of international standards for compostable plastics such as ASTM D6400 (U.S.), EN13432, and ISO 17088.

Product Features

- Formulated to balance stiffness and toughness while improving the flexibility for profile extrusion applications such as zipper profiles
- Maintains the molecular weight of the resin compound, thereby improving the mechanical strength and shelf-life of the finished product

Applications

Natur-Tec® BF5002 is designed to serve as a standard resin for profile extrusion applications such as compostable zippers for compostable bags.



BF5002 Technical Data

Physical			BF5002
Property	Unit	Test Method	Value
Specific Gravity	g/cm ³	ASTM D792	1.26 - 1.30
Melt Flow Rate (190°C with 2.16 kg)	g/10 min	ASTM D1238	4 - 9
Mechanical*			BF5002
Property	Unit	Test Method	Value
Tensile Strength at Break (500 mm/min) MD/TD	MPa	ASTM D882	40 / 41
Tensile Elongation at Break (500 mm/min) MD/TD	%	ASTM D882	362 / 623
Thermal			BF5002
Property	Unit	Test Method	Value
Peak melting temperature by DSC	°C	ASTM D3418	120, 150

*Average mechanical properties of 1 mil thick blown film.

The property values listed above are calculated under standard temperature and humidity conditions. These property values should be viewed as guidelines only, and may vary based on processing conditions. No warranties of any kind, either expressed or implied, are made regarding products described or regarding designs, data or information set forth.

Certifications

Natur-Tec® BF5002 polymer resin meets international compostability standards of ASTM D6400 and EN13432.

Food Contact

Natur-Tec® BF5002 polymer resin is compliant with food contact regulations (EC) 1935/2004, (EU) 10/2011, and its amendments through (EU) 2019/37 and compliant with US FDA regulations. Please refer to our Food Contact Declaration for further details.

Storage and Handling: For optimum performance and product life, store in a cool dry place out of direct sunlight. Refer to the Safety Data Sheet and the Processing Guide for specific handling and processing instructions.