

Product Description

Natur-Tec® BF5001-X is a biobased and compostable polymer resin compound, designed for extrusion and for use in flexible plastic applications. BF5001-X polymer resin is compostable as per ASTM D6400 and EN 13432 standards. It is produced using proprietary technologies and is intended to provide alternatives to conventional plastics. Natur-Tec® resins are engineered for high performance and can be easily processed on conventional manufacturing equipment. Please refer to the Material Safety Data Sheet for specific handling and processing instructions.

Applications

Natur-Tec® BF5001-X extrusion grade resin is suitable for extrusion applications such as sheets and straw applications including straight shafted or kinked straws.

Properties

Physical Properties			
Property	Unit	Test Method	Value
Specific Gravity	gm/cm ³	ASTM D792	1.27
Melt Flow Rate MFR 190°C, 2.16 kg	gm/10 min	ASTM D1238	10 - 15
Melting Point	°C	DSC	110 / 165
Mechanical Properties *			
Property	Unit	Test Method	Value
Tensile Strength (MD)	MPa	ASTM D882	40
Tensile Strength (TD)	MPa	ASTM D882	32
Elongation (MD)	%	ASTM D882	70
Elongation (TD)	%	ASTM D882	225
Elmendorf Tear (MD)	gf	ASTM D1922	217
Elmendorf Tear (TD)	gf	ASTM D1922	183

* Typical Properties of freshly blown 100 microns thick film

Note: 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.

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