

Product Description

Natur-Tec® BF703B is a fully biodegradable and compostable polymer resin compound designed for film extrusion for use in flexible plastic applications. 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. Natur-Tec® BF703B meets the requirements of international standards for compostable plastics such as ASTM D6400 (U.S.), EN 13432, ISO 17088 and AS4736. It is certified 100% compostable by the Biodegradable Products Institute (BPI), Vinçotte, Belgium (OK Compost) and Australian Bioplastics Association (ABA). Please refer to the Material Safety Data Sheet and the Processing Guide for specific handling and processing instructions.

Applications

Natur-Tec® BF703B can be used to produce film for applications such as, bags (compost bags, lawn and leaf bags, pet waste bags, carry-out bags, coat hanger bags), agricultural film, hand gloves, aprons and consumer and industrial packaging.

Properties

Physical Properties			
Property	Unit	Test Method	Value
Specific Gravity	gm/cm ³	ASTM D792	1.35 (resin)
Melt Flow Rate MFR 190°C, 2.16 kg	gm/10 min	ASTM D1238	3 – 6
Melting Point	°C	ASTM D3418	110 – 120
Mechanical Properties *			
Property	Unit	Test Method	Value
Tensile Strength (MD)	MPa	ASTM D882	25
Tensile Strength (TD)	MPa	ASTM D882	23
Elongation (MD)	%	ASTM D882	430
Elongation (TD)	%	ASTM D882	570
Dart Impact	gm	ASTM D1709	150
Trouser Tear (MD)	N/mm	ASTM D1938	98
Trouser Tear (TD)	N/mm	ASTM D1938	118
Transmission Properties *			
Property	Unit	Test Method	Value
Oxygen Transmission Rate (OTR)	cc-mil/m ² /day/bar	ASTM D3985	1090
Water Vapor Transmission Rate (WVTR)	g-mil/m ² /day	ASTM E398-03	370

* Typical Properties of freshly blown 1 mil 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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