

Product Description

Natur-Tec® BF703B is a fully biodegradable and compostable polymer resin compound designed for film extrusion for flexible plastic applications. Natur-Tec® BF703B 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.) and is certified 100% compostable by the Biodegradable Products Institute (BPI). 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), agricultural film and consumer and industrial packaging.

Properties

| Physical Properties | | | |
|---|--------------------------------|--------------|---------------------|
| Property | Unit | Test Method | Value |
| Specific Gravity | gm/cm ³ | ASTM D792 | 1.33 – 1.36 (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 | 18 – 27 |
| Tensile Strength (TD) | MPa | ASTM D882 | 16 – 23 |
| Elongation (MD) | % | ASTM D882 | 330 – 600 |
| Elongation (TD) | % | ASTM D882 | 500 – 750 |
| Dart Impact | gm | ASTM D1709 | 50 – 150 |
| Tear Resistance (MD) | kg | ASTM D1938 | 2.3 – 6 |
| Tear Resistance (TD) | kg | ASTM D1938 | 2.4 – 4 |
| Transmission Properties * | | | |
| Property | Unit | Test Method | Value |
| Oxygen Transmission Rate (OTR) | cc-mil/m ² /day/bar | ASTM D3985 | 1090±10% |
| Water Vapor Transmission Rate (WVTR) | g-mil/m ² /day | ASTM E398-03 | 370±10% |

* Properties for Blown Film of 1 – 1.5 mil thickness

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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