

Terratek[®] BD

BD3003- Film

Product Description

This resin is a proprietary blend of bio fillers, natural and synthetic biodegradable polymers. The resin is made with ingredients which pass industry standards for composting.

<u>Property</u>	<u>Test Method</u>	<u>Value</u>
Film Thickness		2 mil
Tensile Strength (MD)	ASTM D882-12	2,600 psi
Tensile Strength (TD)	ASTM D882-12	2,200 psi
Elastic Modulus (MD)	ASTM D882-12	7,700 psi
Elastic Modulus (TD)	ASTM D882-12	7,900 psi
Elongation (MD)	ASTM D882-12	600%
Elongation (TD)	ASTM D882-12	700%
OTR (23°C; 0% RH)		58 cc/100 in ² - day
WVTR (23°C; 85% RH)		16 g/100 in ² -day)

General Processing Recommendations

This resin needs to be dried before processing if the moisture is above 0.1% (as measured by loss-in-weight at 270°F for 15 minutes). Resin will dry quickly at 150°F in a desiccant dryer, in approximately 2 to 4 hours. Avoid prolonged resin exposure to air during processing or storage as the material can pick up moisture.

Typical processing temperatures are listed below, these are only a guide and may need to be changed based on the particular application:

Rear	280°F to 330°F
Middle	330°F to 360°F
Front	330°F to 360°F
Die	330°F to 360°F

The melt temperature of the resin should remain below 400°F to prevent the material from discoloring and having a burnt odor.

Packaging and Storing

This resin is typically packaged in a sealed plastic-lined box, drum, or gaylord. The product should be stored in a cool, dry, and sanitary area to achieve maximum stability.

The information and recommendations in this sheet are based on our experience and analysis using standard procedures, and are believed to be accurate and reliable. However, they serve merely as typical guides, and are presented in good faith for the benefit of our customers. No guarantee, expressed or implied, is made regarding accuracy of the analysis, patent infringement, liabilities, or risks involved from the application of our products.	Issued:	10/18/2021
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