

Terratek® BD

BD3300X- Film

Product Description

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

Blown Film Test Data

<u>Property</u>	<u>Test Method</u>	<u>Value</u>
Film Thickness (avg)		3 mil
Tensile Strength MD (at max)	ASTM D882	1,069 psi
Tensile Strength TD (at max)	ASTM D882	722 psi
Elongation MD (at max)	ASTM D882	58 %
Elongation TD (at max)	ASTM D882	17 %
Dart Drop (f-50)	ASTM D1709, A	<34.5 gf
OTR (23°C, 0% RH)	ASTM D3985	23.4 cc/ (100 in ² - day)
WVTR (37.8°C, 90% RH)	ASTM F1249	38.9g/ (100 in ² - day atm)
<u>Elmendorf Tear:</u>		
MD (pendulum 200g)	ASTM D1922	12.4 g
TD (pendulum 200g)	ASTM D1922	11.3 g

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	300°F to 330°F
Middle	300°F to 330°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:	04/26/2022
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