

# Terratek<sup>®</sup>

## BD100100- Film

### Product Description

This resin is a biodegradable, biobased polyester resin. It is transparent and amber in appearance.

### **Cast 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	5,452 psi
Tensile Strength TD (at max)	ASTM D882	4,529 psi
Elongation MD (at max)	ASTM D882	44 %
Elongation TD (at max)	ASTM D882	12%
Dart Drop (f-50)	ASTM D1709, A	181 gf
OTR (23°C, 0% RH)	ASTM D3985	2,451 cc/(100 in <sup>2</sup> -day)
WVTR	ASTM F1249	10.5g/(100 in <sup>2</sup> -day atm)
<u>Elmendorf Tear:</u>		
MD (pendulum 200g)	ASTM D1922	19.8 g
TD (pendulum 200g)	ASTM D1922	23.4 g

### General Processing Recommendations

This resin needs to be dried before processing if the moisture is at or below 0.5% (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 1 to 2 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	380°F to 400°F
Middle	400°F to 420°F
Front	400°F to 420°F
Die	400°F to 420°F

### 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:	11/15/2021
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