Terratek®

BD100100- Film

Product Description

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

Cast Film Test Data

Property	Test Method	Value
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^2-day)
WVTR	ASTM F1249	10.5g/(100 in^2-day atm)
Elmendorf Tear:		
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.

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