

Terratek[®] BD

Product Description

Terratek[®] BD5100

Terratek BD5100 is unique bioplastic featuring good impact resistance, tensile strength, and high gloss. It a biobased resin that will biodegrade in a composting environment.

<u>Property</u>	<u>Value</u>	<u>Method</u>
Specific Gravity	1.575	ASTM D792
Tensile Strength (maximum)	5,098 psi	ASTM D638
Tensile Modulus	236,000 psi	ASTM D638
Tensile Elongation	75%	ASTM D638
Flexural Strength	9,173 psi	ASTM D790
Flexural Modulus	231,133 psi	ASTM D790
Notched Izod	1.07 ft-lb/in	ASTM D256
Shrinkage	0.009 in/in	

General Processing Conditions

Terratek[®] BD5100 resin needs to be dried before processing if the moisture is above 0.1%. Resin will dry quickly at 150°F in a desiccant dryer, in approximately 2 to 4 hours. Avoid prolonged resin exposure to air during molding or storage as the material can pick up moisture.

Typical injection molding temperatures are listed below. These are only a guide and may need to be changed based on the particular application:

Rear	330°F to 350°F
Middle	340°F to 360°F
Front	340°F to 360°F
Nozzle	340°F to 360°F
Mold	60°F to 120°F

Packaging and Storing

Terratek[®] BD5100 resin is typically packaged in a sealed plastic-lined Gaylord box at 1200 lbs/box. 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:	01/14/15
	Revised:	01/14/15
	Approved:	R&D/QC