

Terratek® BD

Terratek® BD5100

Product Description

Terratek® BD5100 resins are a proprietary blend of bio fillers, natural and synthetic biodegradable polymers. The resins are made with ingredients which pass industry standards for composting.

Sustainability Guide	
Biobased content ASTM 6866	-
Biobased content by weight	-
Recycled content	-
Energy use	-
Compostable	-

Property	Test Method	Value
Specific Gravity	ASTM D792	1.575
Shrinkage		0.009 in/in
Melt Index (190C 2.16kg)		35 g/10 min
Tensile Strength	ASTM D638	5,098 psi
Tensile Modulus	ASTM D638	236,000 psi
Flex Strength	ASTM D790	9,173 psi
Flex Modulus	ASTM D790	231,133 psi
Notched Izod	ASTM D256	1.07 ft lb/in

General Processing Recommendations

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

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

Terratek® BD5100 resin is typically packaged in a sealed plastic-lined Gaylord at 1200 lbs/Gaylord. The product should be stored in a cool, dry, and sanitary area to achieve maximum stability. Keep material in a sealed package or container to prevent excess moisture absorption.

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:	2/1/18
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