

Terratek® BD

BD5875D

Product Description

This resin is a proprietary blend of natural and synthetic biodegradable polymers. The resins are made with ingredients which pass industry standards for composting. By altering the ratio of the natural to synthetic biodegradable polymers, a wide range of properties can be generated.

<u>Property</u>	<u>Test Method</u>	<u>Value</u>
Specific Gravity	ASTM D792	1.23
Shrinkage (48 hrs)	ASTM D955	0.00948 in/in (parallel)
Shrinkage (48 hrs)	ASTM D955	0.00420 in/in (perpendicular)
Melt Index (190°C; 2.16 kg)	ASTM D1238	7.0 g/10 min
Tensile Strength	ASTM D638	5,589.9 psi
Tensile Modulus	ASTM D638	194,363.4 psi
Elongation		158.5 %
Notched Izod	ASTM D256	0.478 ft-lb/in
Flex Strength	ASTM D790	7,156.3 psi
Flex Modulus	ASTM D790	186,325.4 psi

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	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

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:	03/25/2021
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