

# Terratek<sup>®</sup>

## Product Description

**Terratek<sup>®</sup> BD3002 (RD022615-2)** Blown Film sample

**Terratek<sup>®</sup> BD3002 (RD022615-2)** is a proprietary blend of natural and synthetic biodegradable polymers. The resin is made with ingredients which pass industry standards for composting. This formula was developed for blown and cast film applications.

### Blown Film Test Data

<u>Property</u>	<u>Test Method</u>	<u>Value</u>
Film Thickness		2 mil
Tensile Strength MD	ASTM D882-12	1,920 psi
Tensile Strength TD	ASTM D882-12	1,500 psi
Elastic Modulus MD	ASTM D882-12	6,170 psi
Elastic Modulus TD	ASTM D882-12	6,740 psi
Elongation MD	ASTM D882-12	578 %
Elongation TD	ASTM D882-12	592 %
OTR (23C, 0% RH)		49.6 cc/(100 in <sup>2</sup> ·day)
WVTR (23C, 85% RH)		16.1 g/(100 in <sup>2</sup> ·day)

### General Processing Conditions

**Green Dot's Terratek<sup>®</sup> BD3002 (RD022615-2)** 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. Avoid prolonged resin exposure to air during molding or storage as the material can pick up moisture.

The melt temperature of the resin should remain below 400°F to prevent the material from discoloring and having a burnt odor. The recommended barrel temperatures for processing are between 300°F and 340°F.

### Packaging and Storing

**Terratek<sup>®</sup> BD3002 (RD022615-2)** 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.

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:	12/15/2016
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