

# Terratek<sup>®</sup> WC

Sustainability Guide	
Biobased content	30%
Recycled content	100%
Energy use	2.70 Mj/kg
Compostable	no

**Product Description**

Terratek<sup>®</sup> WC100300

Terratek<sup>®</sup> WC100300 is a proprietary blend of pine wood fiber and reprocessed polypropylene for injection molding applications. WC 100300 contains 30% wood fiber by weight, however, a range of properties can be achieved by altering the wood to plastic ratio and by the inclusion or admission of other additives. Formulations containing anywhere from 30% to 60% wood are available upon request.

Property	Test Method	Value
Specific Gravity	ASTM D792	1.01 g/cm <sup>3</sup>
Shrinkage		0.004 in/in
Melt Index	ASTM D1238	9.4 g/10 min
Tensile Strength	ASTM D638	2,739 psi
Tensile Modulus	ASTM D638	364,487 psi
Elongation		3.83 %
Notched Izod	ASTM D256	1.08 ft lb/in

**General Processing Conditions**

Green Dot's Terratek<sup>®</sup> WC100300 resin needs to be dried before processing if the moisture is above 0.5%. Resin will dry quickly at 220°F in a desiccant dryer. Avoid prolonged resin exposure to air during molding or storage as the material can pick up moisture.

For best molding results, larger gates and runners are recommended. The injection pressure required to fill the mold is much higher than typical injection molding grade plastics. Typical injection molding temperatures are listed below, these are only a guide and may need to be changed based on the particular application:

Rear	350°F to 360°F
Middle	350°F to 360°F
Front	360°F to 375°F
Nozzle	360°F to 375°F
Mold	60°F to 170°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<sup>®</sup> WC100300 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:	3/11/10
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