

Terratek[®] WC

WC200140

Product Description

Terratek[®] WC200140 is a proprietary blend of wood flour and biobased polyethylene for injection molding applications. WC200140 contains 15% wood flour and with Braskem GreenPE this formulation is fully biobased.

Preliminary Data- Pending Third-Party Evaluation

Property	Test Method	Value
Specific Gravity	ASTM D792	1.0 g/cm ³
Shrinkage	ASTM D955	0.013 in/in
Melt Index (190° C/ 2.16 kg)	ASTM D1238	7.0 g/10 min
Tensile Strength (at Break)	ASTM D638	2,900 psi
Tensile Modulus	ASTM D638	252,466 psi
Elongation		5.23 %
Notched Izod	ASTM D256	0.6 ft lb/in
Flex Strength	ASTM D790	5,814 psi
Flex Modulus	ASTM D790	210,000 psi

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

General Processing Recommendations

Green Dot's Terratek[®] WC200140 resin needs to be dried before processing if the moisture is above 0.5%. 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.

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[®] WC200140 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:	9/23/2016
	Revised:	10/08/20
	Approved:	R&D/QC