

Product Terratek® WC200300

| Renewable Content | |
|-------------------------------|-----|
| Biobased content (ASTM D6866) | 13% |
| Biomass content (by weight) | 30% |

Product Description This resin is a combination of pine wood and injection molding grade polypropylene (PP). No new trees are cut to source the wood. It is reclaimed from wood-working industries, such as window and door factories, creating an upcycled waste stream.

Pine vs Maple- Which is better for my application?

Pine will have a lighter color and more noticeable “pine wood” odor vs. the slightly darker maple. (Terratek® WC200118) Also of note, maple tends to be more color consistent lot to lot. We highly recommend using our WC200118 if you have a narrower tolerance for color variation.

| Property | Test Method | Value |
|---|-------------|----------------|
| Specific Gravity | ASTM D792 | 1.00 |
| Shrinkage (48 hrs- parallel direction) | ASTM D955 | 0.00628 in/in |
| Shrinkage (48 hrs- perpendicular direction) | ASTM D955 | 0.016 in/in |
| Melt Index (190°C / 2.16 kg) | ASTM D1238 | 2.8 g/10 min |
| Tensile Strength (at Break) | ASTM D638 | 4,199.5 psi |
| Tensile Modulus | ASTM D638 | 495,287.1psi |
| Elongation | ASTM D638 | 2.2% |
| Notched Izod Impact | ASTM D256 | 0.501 ft-lb/in |
| Flexural Strength | ASTM D790 | 7,813.3 psi |
| Flexural Modulus | ASTM D790 | 456,744.8 psi |

Drying Conditions

Moisture level: at or below 0.25% (2500 ppm)
 Method: as measured by a loss in weight analyzer 270°F for 15 minutes
 Drying conditions: Desiccant dryer 150°F until the recommended moisture level is reached

ATTENTION: Moisture in Terratek® WC resins may result in splay, drool at the nozzle, foaming or other processing concerns.

Packaging and Storing

This resin is typically packaged in a sealed plastic or foil lined box, drum, or gaylord. The product should be stored in a cool, dry, and sanitary area to achieve maximum stability.

Molding Recommendations

Terratek® resins can be processed on conventional molding equipment. Follow standard purging process with a polyolefin or purge compound, such as Dyna-Purge, etc. Melt temperature of the resin should remain below 400°F. If thermal degradation occurs, the operator will see dark streaks in the parts or purge, off-gassing, and drool at the nozzle or in the mold.

| | |
|--------------|----------------|
| Feed Zone | 300°F to 360°F |
| Middle Zones | 330°F to 360°F |
| Front Zones | 360°F to 380°F |
| Nozzle/Die | 360°F to 380°F |
| Mold | 40°F to 100°F |

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