

# Terratek®

## CC200515

**Product Description**

**Terratek® CC200515** is a proprietary blend of corn cob and biobased polyethylene for injection molding applications. CC200515 contains 30% corn cob fiber and with Braskem GreenPE this formulation is fully biobased.

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

| <u>Property</u>          | <u>Test Method</u> | <u>Value</u>  |
|--------------------------|--------------------|---------------|
| Specific Gravity         | ASTM D792          | 1.04          |
| Shrinkage                |                    | 0.013 in/in   |
| Melt Index (190C 2.16kg) | ASTM D1238         | 6.7 g/10 min  |
| Tensile Strength         | ASTM D638          | 2,983 psi     |
| Tensile Modulus          | ASTM D638          | 252.466 psi   |
| Flex Strength            | ASTM D790          | 5,814 psi     |
| Flex Modulus             | ASTM D790          | 223,859 psi   |
| Elongation               |                    | 5.23 %        |
| Notched Izod             | ASTM D256          | 0.58 ft lb/in |

**General Processing Recommendations**

**Green Dot's Terratek® CC200515** 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® CC200515** 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:   | 11/23/16 |
|   | Revised:  | 8/7/20   |
|   | Approved: | R&D/QC   |