

**HiFill® PP GF15 CC**

 Techmer Polymer Modifiers - *Polypropylene*
**General Information**
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|                        |                                     |
|------------------------|-------------------------------------|
| Material Status        | • Commercial: Active                |
| Availability           | • North America                     |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight |
| Features               | • Chemically Coupled                |
| Appearance             | • Colors Available                  |
| Forms                  | • Pellets                           |
| Processing Method      | • Injection Molding                 |

**Properties <sup>1</sup>**

|   | Nominal Value | Unit     | Test Method |
|---|---------------|----------|-------------|
| <b>Physical</b>   |               |          |             |
| Density / Specific Gravity                              | 1.02          |          | ASTM D792   |
| Molding Shrinkage - Flow (0.125 in)                     | 5.5E-3        | in/in    | ASTM D955   |
| Water Absorption (24 hr)                                | 0.010         | %        | ASTM D570   |
| <b>Mechanical</b>                                       |               |          |             |
| <b>Nominal Value Unit Test Method</b>                   |               |          |             |
| Tensile Strength (Break)                                | 9000          | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 4.7           | %        | ASTM D638   |
| Flexural Modulus  | 420000        | psi      | ASTM D790   |
| Flexural Strength                                       | 14100         | psi      | ASTM D790   |
| <b>Impact</b>   |               |          |             |
| <b>Nominal Value Unit Test Method</b>                   |               |          |             |
| Notched Izod Impact (73°F, 0.125 in)                    | 1.6           | ft·lb/in | ASTM D256   |
| Unnotched Izod Impact (0.125 in)                        | 11            | ft·lb/in | ASTM D4812  |
| <b>Hardness</b>   |               |          |             |
| <b>Nominal Value Unit Test Method</b>                   |               |          |             |
| Rockwell Hardness (R-Scale)                             | 112           |          | ASTM D785   |
| <b>Thermal</b>  |               |          |             |
| <b>Nominal Value Unit Test Method</b>                   |               |          |             |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 320           | °F       | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 305           | °F       | ASTM D648   |
| Melting Temperature                                     | 325           | °F       |             |
| CLTE - Flow   | 2.5E-5        | in/in/°F | ASTM D696   |
| <b>Electrical</b>                                       |               |          |             |
| <b>Nominal Value Unit Test Method</b>                   |               |          |             |
| Volume Resistivity                                      | 4.0E+16       | ohms·cm  | ASTM D257   |
| Dielectric Strength (Method A (Short-Time))             | 530           | V/mil    | ASTM D149   |
| <b>Flammability</b>                                     |               |          |             |
| <b>Nominal Value Unit Test Method</b>                   |               |          |             |
| Flame Rating  | HB            |          | UL 94       |

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.
