

**HiFill® PA6/6 GF13 IM HS BK**

 Techmer Polymer Modifiers - *Polyamide 66*
**General Information**
**General**

|                        |  |
|------------------------|--|
| Material Status        | • Commercial: Active                             |
| Availability           | • North America                                  |
| Filler / Reinforcement | • Glass Fiber, 13% Filler by Weight              |
| Additive               | • Heat Stabilizer • Impact Modifier • Lubricant  |
| Features               | • Heat Stabilized • Impact Modified • Lubricated |
| UL File Number         | • E157318  |
| Appearance             | • Black  |
| Forms                  | • Pellets  |
| Processing Method      | • Injection Molding                              |

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

| Physical  | Nominal Value | Unit     | Test Method |
|---|---------------|----------|-------------|
| Density / Specific Gravity                              | 1.19          |          | ASTM D792   |
| Molding Shrinkage - Flow (0.125 in)                     | 0.016         | in/in    | ASTM D955   |
| Water Absorption (24 hr)                                | 0.90          | %        | ASTM D570   |
| Mechanical  | Nominal Value | Unit     | Test Method |
| Tensile Strength (Yield)                                | 12000         | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 6.0           | %        | ASTM D638   |
| Flexural Modulus  | 525000        | psi      | ASTM D790   |
| Flexural Strength                                       | 16000         | psi      | ASTM D790   |
| Impact  | Nominal Value | Unit     | Test Method |
| Notched Izod Impact                                     |               |          | ASTM D256   |
| -40°F, 0.125 in   | 2.0           | ft·lb/in |             |
| 73°F, 0.125 in  | 3.4           | ft·lb/in |             |
| Unnotched Izod Impact (0.125 in)                        | No Break      |          | ASTM D4812  |
| Hardness  | Nominal Value | Unit     | Test Method |
| Rockwell Hardness (R-Scale)                             | 111           |          | ASTM D785   |
| Thermal   | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 485           | °F       | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 428           | °F       | ASTM D648   |
| CLTE - Flow   | 4.4E-5        | in/in/°F | ASTM D696   |
| Electrical  | Nominal Value | Unit     | Test Method |
| Volume Resistivity                                      | 1.0E+14       | ohms·cm  | ASTM D257   |
| Dielectric Strength (Method A (Short-Time))             | 490           | V/mil    | ASTM D149   |

**Processing Information**

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 180           | °F   |
| Drying Time            | 2.0 to 4.0    | hr   |
| Suggested Max Moisture | 0.10          | %    |
| Rear Temperature       | 540 to 560    | °F   |
| Middle Temperature     | 550 to 570    | °F   |
| Front Temperature      | 530 to 550    | °F   |
| Nozzle Temperature     | 520 to 580    | °F   |
| Processing (Melt) Temp | 540 to 580    | °F   |
| Mold Temperature       | 175 to 220    | °F   |
| Injection Rate         | Slow-Moderate |      |



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Back Pressure

0.00 to 50.0 psi

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**Injection Notes**

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Screw Speed: Slow

Recommendations for Molding and Tool Conditions: Well vented mold

Moisture Content, as received: Product is packaged at 0.2% or less.

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**Notes**

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

