

HiFill® PA4/6 GF40 HS

Polyamide 46

Techmer Engineered Solutions

Message:

HiFill® PA4/6 GF40 HS is a Polyamide 46 (Nylon 46) product filled with 40% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Heat Stabilizer

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,40% Filler by Weight | | |
| Additive | Heat Stabilizer | | |
| Features | Heat Stabilized | | |
| Appearance | Colors Available | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.52 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.50 | % | ASTM D955 |
| Water Absorption (24 hr) | 1.5 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 228 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.8 | % | ASTM D638 |
| Flexural Modulus | 11000 | MPa | ASTM D790 |
| Flexural Strength | 317 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 120 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 288 | °C | ASTM D648 |
| CLTE - Flow | 3.4E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 8.0E+15 | ohms · cm | ASTM D257 |
| Dielectric Strength ¹ | 22 | kV/mm | ASTM D149 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |
| Additional Information | Nominal Value | | |
| TPCI # | 9627150 | | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 85.0 | °C | |
| Drying Time | 4.0 to 8.0 | hr | |

| | | |
|------------------------|---------------|-----|
| Rear Temperature | 282 to 316 | °C |
| Middle Temperature | 282 to 316 | °C |
| Front Temperature | 282 to 316 | °C |
| Processing (Melt) Temp | 246 to 316 | °C |
| Mold Temperature | 87.8 to 127 | °C |
| Back Pressure | 0.00 to 0.345 | MPa |
| Screw Speed | 40 to 80 | rpm |

NOTE

1. Method A (Short-Time)

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