

HiFill® PS GB40

General Purpose Polystyrene
Techmer Engineered Solutions

Message:

HiFill® PS GB40 is a General Purpose Polystyrene product filled with 40% glass bead. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

| General Information | | | |
|-------------------------------------|---------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Bead,40% Filler by Weight | | |
| Appearance | Natural Color | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.35 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.15 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.090 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 95 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 41.4 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 1.0 | % | ASTM D638 |
| Flexural Modulus | 5860 | MPa | ASTM D790 |
| Flexural Strength | 55.2 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 21 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 87.8 | °C | |
| 1.8 MPa, Unannealed | 76.7 | °C | |
| CLTE - Flow | 7.2E-6 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+16 | ohms · cm | ASTM D257 |
| Dielectric Strength ¹ | 18 | kV/mm | ASTM D149 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.50 mm) | HB | | UL 94 |
| NOTE | | | |

1. Method A (Short-Time)

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