

HiFill® ABS GF20 IM

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

HiFill® ABS GF20 IM is an Acrylonitrile Butadiene Styrene (ABS) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Impact Modified

Impact Resistant

| General Information | | | |
|------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,20% Filler by Weight | | |
| Additive | Impact Modifier | | |
| Features | High Impact Resistance | | |
| Appearance | Colors Available | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.19 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.20 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.30 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 77.9 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 11 | % | ASTM D638 |
| Flexural Modulus | 5650 | MPa | ASTM D790 |
| Flexural Strength | 119 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (6.35 mm) | 110 | J/m | ASTM D256 |
| Unnotched Izod Impact (6.35 mm) | 400 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 112 | °C | |
| 1.8 MPa, Unannealed | 106 | °C | |
| CLTE - Flow | 4.0E-5 | 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 |
| Additional Information | Nominal Value | | |
| TPCI # | 7782121 | | |

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 76.7 to 87.8 | °C |
| Drying Time | 2.0 to 16 | hr |
| Rear Temperature | 216 to 232 | °C |
| Middle Temperature | 221 to 238 | °C |
| Front Temperature | 210 to 221 | °C |
| Nozzle Temperature | 199 to 221 | °C |
| Processing (Melt) Temp | 232 to 260 | °C |
| Mold Temperature | 71.1 to 87.8 | °C |
| NOTE | | |

1. Method A (Short-Time)

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