

HiFill FR® TPX-HTN-01031

Polyamide

Techmer Engineered Solutions

Message:

HiFill FR® TPX-HTN-01031 is a Polyamide product filled with 35% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Flame Retardant

Heat Stabilizer

High Strength

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,35% Filler by Weight | | |
| Additive | Heat Stabilizer | | |
| Features | Flame Retardant | | |
| | Heat Stabilized | | |
| | High Temperature Strength | | |
| UL File Number | E157318 | | |
| Appearance | Colors Available | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.68 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.50 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.18 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 179 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.0 | % | ASTM D638 |
| Flexural Modulus | 12400 | MPa | ASTM D790 |
| Flexural Strength | 255 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 75 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 290 | °C | ASTM D648 |
| CLTE - Flow | 2.7E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+15 | ohms · cm | ASTM D257 |
| Dielectric Strength ¹ | 24 | kV/mm | ASTM D149 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.800 mm) | V-0 | | UL 94 |

NOTE

1. Method A (Short-Time)

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