

INSTRUC PEIGF10

Polyether Imide

Infinity LTL Engineered Compounds

Message:

Instruc glass and carbon fiber reinforced, mineral and process additive filled structural compounds - Offered in all Infinity base resins
Provide significant improvements in strength, stiffness, creep resistance, fatigue endurance and impact & dimensional stability
Increased thermal HDTUL and long term heat resistance

| General Information | | | |
|---|----------------------------------|--------------------|-------------|
| Filler / Reinforcement | Glass Fiber,10% Filler by Weight | | |
| Features | Fatigue Resistant | | |
| | Good Creep Resistance | | |
| | Good Dimensional Stability | | |
| | Good Heat Aging Resistance | | |
| | Good Impact Resistance | | |
| | High Flow | | |
| | High Stiffness | | |
| | High Strength | | |
| | Medium Heat Resistance | | |
| Uses | Structural Parts | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.34 | g/cm ³ | ASTM D792 |
| Specific Volume | 0.748 | cm ³ /g | |
| Molding Shrinkage - Flow | 0.40 to 0.50 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.24 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 128 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 3.0 to 5.0 | % | ASTM D638 |
| Flexural Modulus | 4830 | MPa | ASTM D790 |
| Flexural Strength | 183 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 53 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 430 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 207 | °C | ASTM D648 |
| CLTE - Flow | 3.6E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+17 | ohms | ASTM D257 |

| Flammability | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
| Flame Rating (1.59 mm) | V-0 | | UL 94 |

| Injection | Nominal Value | Unit |
|------------------------|----------------|------|
| Drying Temperature | 149 | °C |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 360 to 379 | °C |
| Mold Temperature | 149 | °C |
| Back Pressure | 0.345 to 0.689 | MPa |
| Screw Speed | 40 to 70 | rpm |
| Vent Depth | 0.038 to 0.076 | mm |

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