

INLUBE PBTGF20TF15

Polybutylene Terephthalate

Infinity LTL Engineered Compounds

Message:

Inlube PTFE, silicone, MoS2 and graphite internally lubricated compounds

Offered in all Infinity base resins and can be combined with reinforcements and process additives

Provide reduced coefficient of friction and low wear, including enhanced mechanical and thermal properties

| General Information | | | |
|---|----------------------------------|--------------------|-------------|
| Filler / Reinforcement | Glass Fiber,20% Filler by Weight | | |
| Additive | PTFE Lubricant (15%) | | |
| Features | Good Wear Resistance | | |
| | Low Friction | | |
| | Lubricated | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.56 | g/cm ³ | ASTM D792 |
| Specific Volume | 0.642 | cm ³ /g | |
| Molding Shrinkage - Flow | 0.30 to 0.40 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.050 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 103 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 3.0 to 5.0 | % | ASTM D638 |
| Flexural Modulus | 6890 | MPa | ASTM D790 |
| Flexural Strength | 165 | 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) | 800 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 210 | °C | ASTM D648 |
| CLTE - Flow | 4.0E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+16 | ohms | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.59 mm) | HB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 110 | °C | |
| Drying Time | 4.0 | hr | |
| Processing (Melt) Temp | 221 to 260 | °C | |

| | | |
|------------------|----------------|-----|
| Mold Temperature | 107 | °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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