

InLube® PEITF15

Americhem - Polyetherimide

General Information

Product Description

15% PTFE LUBRICATED POLYETHERIMIDE

General

| | | | |
|-------------------|--------------------------------------|---------------------------|---------------------------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| | • Asia Pacific | • Latin America | |
| Additive | • PTFE Lubricant: 15% | | |
| Features | • Chemical Resistant | • Low Friction | • Wear Resistant |
| | • Good Mold Release | • Lubricated | |
| Uses | • Aerospace Applications | • Engineering Parts | • Military/Defense Applications |
| | • Connectors | • Industrial Applications | • Oil/Gas Applications |
| | • Consumer Applications | • Industrial Parts | • Outdoor Applications |
| | • Electrical/Electronic Applications | • Metal Replacement | • Semiconductor Applications |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|-----------------|---------------------|-------------|
| Density / Specific Gravity | 1.35 | | ASTM D792 |
| Specific Volume | 20.5 | in ³ /lb | |
| Molding Shrinkage - Flow | 8.0E-3 to 0.011 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.25 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 12800 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 5.0 to 7.0 | % | ASTM D638 |
| Flexural Modulus | 419000 | psi | ASTM D790 |
| Flexural Strength | 19600 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (0.125 in) | 1.3 | ft·lb/in | ASTM D256 |
| Unnotched Izod Impact (0.125 in) | 14 | ft·lb/in | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 360 | °F | ASTM D648 |
| CLTE - Flow | 2.6E-5 | in/in/°F | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+17 | ohms | |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.06 in) | V-0 | | UL 94 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|------------------|------|
| Drying Temperature | 300 | °F |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 680 to 715 | °F |
| Mold Temperature | 300 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 40 to 70 | rpm |
| Vent Depth | 1.5E-3 to 3.0E-3 | in |

