

InLube® PCTF8SI2HFMD

Americhem - Polycarbonate

General Information

Product Description

8% PTFE/2% SILICONE LUBRICATED, HIGH FLOW POLYCARBONATE LOCKED FORMULATION FOR MEDICAL USAGE

General

| | | | |
|-------------------|--------------------------------------|--------------------------|-----------------------------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| | • Asia Pacific | • Latin America | |
| Additive | • PTFE Lubricant: 8% | • Silicone Lubricant: 2% | |
| Features | • Autoclave Sterilizable | • Good Mold Release | • Lubricated |
| | • Chemical Resistant | • Heat Sterilizable | • Radiation Sterilizable |
| | • E-beam Sterilizable | • High Flow | • Steam Sterilizable |
| | • Ethylene Oxide Sterilizable | • Low Friction | • Wear Resistant |
| Uses | • Closures | • Engineering Parts | • Medical/Healthcare Applications |
| | • Connectors | • Housings | • Surgical Instruments |
| | • Electrical/Electronic Applications | • Industrial Parts | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|------------------|----------|-------------|
| Density / Specific Gravity | 1.24 | | ASTM D792 |
| Molding Shrinkage - Flow | 5.0E-3 to 7.0E-3 | in/in | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 7350 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 13 | % | ASTM D638 |
| Flexural Modulus | 320000 | psi | ASTM D790 |
| Flexural Strength | 10600 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (0.125 in) | 4.0 | ft·lb/in | ASTM D256 |
| Unnotched Izod Impact (0.125 in) | No Break | | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 275 | °F | ASTM D648 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.12 in) | HB | | UL 94 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 250 | °F |
| Drying Time | 3.0 to 4.0 | hr |
| Suggested Max Moisture | 0.020 | % |
| Processing (Melt) Temp | 580 to 620 | °F |
| Mold Temperature | 180 to 240 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 40 to 70 | rpm |

