

InLube® POMCTF13SI2

Americhem - Acetal (POM) Copolymer

General Information
Product Description

13% PTFE LUBRICATED, 2% SILICONE LUBRICATED ACETAL COPOLYMER

General

| | | | |
|-------------------|---|--|--|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Additive | • PTFE Lubricant: 13% • Silicone Lubricant: 2% | | |
| Features | • Chemical Resistant • Good Mold Release | • Low Friction • Lubricated | • Wear Resistant |
| Uses | • Consumer Applications • Electrical/Electronic Applications | • Engineering Parts • Household Goods | • Industrial Applications • Office Automation Equipment |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

Properties ¹

| | Nominal Value | Unit | Test Method |
|---|----------------|----------|-------------|
| Physical | | | |
| Density / Specific Gravity | 1.46 | | ASTM D792 |
| Molding Shrinkage - Flow | 0.018 to 0.023 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.20 | % | ASTM D570 |
| Mechanical | | | |
| Tensile Modulus | 320000 | psi | ASTM D638 |
| Tensile Strength | 6000 | psi | ASTM D638 |
| Tensile Elongation (Yield) | > 10 | % | ASTM D638 |
| Flexural Modulus | 300000 | psi | ASTM D790 |
| Flexural Strength | 8500 | psi | ASTM D790 |
| Impact | | | |
| Notched Izod Impact (0.125 in) | 1.0 | ft-lb/in | ASTM D256 |
| Thermal | | | |
| Deflection Temperature Under Load (264 psi, Unannealed) | 230 | °F | ASTM D648 |

Processing Information

| | Nominal Value | Unit |
|------------------------|---------------|------|
| Injection | | |
| Drying Temperature | 180 | °F |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 390 to 410 | °F |
| Mold Temperature | 180 to 220 | °F |
| Back Pressure | 25.0 to 50.0 | psi |
| Screw Speed | 30 to 60 | rpm |

