

InLube® POMCCF10TF15

Americhem - Acetal (POM) Copolymer

General Information

Product Description

10 CARBON FIBER REINFORCED 15 PTFE LUBRICATED COPOLYMER ACETAL

General

| | | | |
|------------------------|--------------------------------------|---------------------|-------------------------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| | • Asia Pacific | • Latin America | |
| Filler / Reinforcement | • Carbon Fiber, 10% Filler by Weight | | |
| Additive | • PTFE Lubricant: 15% | | |
| Features | • Chemical Resistant | • Good Mold Release | • Low Friction |
| | • Filled | • High Stiffness | • Lubricated |
| | • Good Dimensional Stability | • High Strength | • Wear Resistant |
| Uses | • Consumer Applications | • Engineering Parts | • Industrial Applications |
| | • Electrical/Electronic Applications | • Household Goods | • Office Automation Equipment |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

 Properties ¹

| | Nominal Value | Unit | Test Method |
|---|------------------|---------------------|-------------|
| Physical | | | |
| Density / Specific Gravity | 1.50 | | ASTM D792 |
| Specific Volume | 18.5 | in ³ /lb | |
| Molding Shrinkage - Flow | 7.0E-3 to 9.0E-3 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.25 | % | ASTM D570 |
| Mechanical | | | |
| Tensile Strength | 10500 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 1.0 to 2.0 | % | ASTM D638 |
| Flexural Modulus | 1.20E+6 | psi | ASTM D790 |
| Flexural Strength | 16000 | psi | ASTM D790 |
| Impact | | | |
| Notched Izod Impact (0.125 in) | 0.90 | ft·lb/in | ASTM D256 |
| Unnotched Izod Impact (0.125 in) | 6.0 | ft·lb/in | ASTM D4812 |
| Thermal | | | |
| Deflection Temperature Under Load (264 psi, Unannealed) | 305 | °F | ASTM D648 |
| CLTE - Flow | 3.6E-5 | in/in/°F | ASTM D696 |
| Electrical | | | |
| Surface Resistivity | 1.0E+3 to 1.0E+7 | ohms | |
| Flammability | | | |
| Flame Rating (0.06 in) | HB | | UL 94 |

Processing Information

| | Nominal Value | Unit |
|------------------------|------------------|------|
| Injection | | |
| Drying Temperature | 180 | °F |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 375 to 410 | °F |
| Mold Temperature | 200 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 30 to 60 | rpm |
| Vent Depth | 5.0E-4 to 1.0E-3 | in |

