

**InLube® POMCTF8SI2**

Americhem - Acetal (POM) Copolymer

## General Information

**Product Description**

8% PTFE LUBRICATED, 2% SILICONE LUBRICATED ACETAL COPOLYMER

**General**

|                   |   |  |  |
|-------------------|---|--|--|
| Material Status   | • Commercial: Active  |  |  |
| Availability      | • Africa & Middle East<br>• Asia Pacific                        | • Europe<br>• Latin America              | • North America  |
| Additive          | • PTFE Lubricant: 8%      • Silicone Lubricant: 2%              |  |  |
| Features          | • Chemical Resistant<br>• Good Mold Release                     | • Low Friction<br>• Lubricated           | • Wear Resistant   |
| Uses              | • Consumer Applications<br>• Electrical/Electronic Applications | • Engineering Parts<br>• Household Goods | • Industrial Applications<br>• Office Automation Equipment |
| Forms             | • Pellets   |  |  |
| Processing Method | • Injection Molding   |  |  |

 Properties <sup>1</sup>

| Physical  | Nominal Value  | Unit     | Test Method |
|---|----------------|----------|-------------|
| Density / Specific Gravity                              | 1.44           |          | ASTM D792   |
| Molding Shrinkage - Flow                                | 0.018 to 0.023 | in/in    | ASTM D955   |
| Water Absorption (24 hr)                                | 0.20           | %        | ASTM D570   |
| Mechanical  | Nominal Value  | Unit     | Test Method |
| Tensile Strength  | 7200           | psi      | ASTM D638   |
| Tensile Elongation (Yield)                              | > 10           | %        | ASTM D638   |
| Flexural Modulus  | 350000         | psi      | ASTM D790   |
| Flexural Strength                                       | 9500           | psi      | ASTM D790   |
| Impact  | Nominal Value  | Unit     | Test Method |
| Notched Izod Impact (0.125 in)                          | 1.4            | ft·lb/in | ASTM D256   |
| Unnotched Izod Impact                                   | 12             | ft·lb/in | ASTM D4812  |
| Thermal   | Nominal Value  | Unit     | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 220            | °F       | ASTM D648   |
| Electrical  | Nominal Value  | Unit     | Test Method |
| Surface Resistivity                                     | > 1.0E+17      | ohms     | ASTM D257   |

## Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| 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  |

