

InLube® PA66SI2MD

Americhem - Polyamide 66

General Information
Product Description

Unfilled Nylon 66 with 2% silicone for Healthcare Applications

General

| | |
|-------------------|--|
| Material Status | • Commercial: Active |
| Availability | • Africa & Middle East • Asia Pacific • Europe • Latin America • North America |
| Additive | • Molybdenum Disulfide Lubricant: 2% |
| Features | • Ethylene Oxide Sterilizable • Low Friction • Lubricated |
| Uses | • Closures • Electrical/Electronic Applications • Engineering Parts • Industrial Parts • Medical/Healthcare Applications • Surgical Instruments • Window & Door Components |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|----------------|----------|-------------|
| Density / Specific Gravity | 1.14 | | ASTM D792 |
| Molding Shrinkage - Flow | 0.014 to 0.015 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 1.3 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus ² | 430000 | psi | ASTM D638 |
| Tensile Strength | 12000 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 11 | % | ASTM D638 |
| Flexural Modulus | 420000 | psi | ASTM D790 |
| Flexural Strength | 14500 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 1.0 | ft·lb/in | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 190 | °F | ASTM D648 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 175 | °F |
| Drying Time | 4.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Processing (Melt) Temp | 530 to 570 | °F |
| Mold Temperature | 120 to 200 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 40 to 70 | rpm |

Notes
¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min
