

InLube® PA66GF20TF15FRHS

Americhem - Polyamide 66

General Information

Product Description

20% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED, FLAME RETARDANT AND HEAT STABILIZED NYLON 6/6

General

| | | | |
|------------------------|--|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight | | |
| Additive | • Flame Retardant | • Heat Stabilizer | • PTFE Lubricant: 15% |
| Features | • Chemical Resistant • Filled • Flame Retardant • Good Dimensional Stability | • Good Mold Release • Halogenated • Heat Stabilized • High Stiffness | • High Strength • Low Friction • Lubricated • Wear Resistant |
| Uses | • Closures • Consumer Applications • Electrical/Electronic Applications • Engineering Parts | • Household Goods • Industrial Applications • Industrial Parts • Office Automation Equipment | • Outdoor Applications • Window & Door Components |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|------------------|----------|-------------|
| Density / Specific Gravity | 1.62 | | ASTM D792 |
| Molding Shrinkage - Flow | 3.0E-3 to 5.0E-3 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.70 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1.30E+6 | psi | ASTM D638 |
| Tensile Strength | 17000 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 2.0 to 3.0 | % | ASTM D638 |
| Flexural Modulus | 1.10E+6 | psi | ASTM D790 |
| Flexural Strength | 24000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (0.125 in) | 1.5 | ft-lb/in | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 455 | °F | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+17 | ohms | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 0.06 in | | V-0 | |
| 0.12 in | | V-0 | |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 175 | °F |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 500 to 560 | °F |
| Mold Temperature | 200 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 40 to 70 | rpm |

