



InLube® PEEKGF20TF15HF

PRODUCT DESCRIPTION 20% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED HIGH FLOW PEEK

MATERIAL STATUS Commercial: Active

AVAILABILITY Africa & Middle East, Asia Pacific, Europe, Latin America, North America

FILLER / REINFORCEMENT Glass Fiber, 20% Filler by Weight

ADDITIVE PTFE Lubricant: 15%

FEATURES Chemical Resistant, Filled, Good Dimensional Stability, Good Mold Release, High Flow, High Stiffness, High Strength, Low Friction, Lubricated, Wear Resistant

USES Aerospace Applications, Connectors, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Industrial Applications, Industrial Parts, Metal Replacement, Military/Defense Applications, Oil/Gas Applications, Outdoor Applications, Semiconductor Applications

FORMS Pellets

PROCESSING METHOD Injection Molding

| PHYSICAL | NOMINAL VALUE | UNIT | TEST METHOD |
|--|------------------|----------|-------------|
| Density / Specific Gravity | 1.56 | | ASTM D792 |
| Molding Shrinkage - Flow | 2.0E-3 to 5.0E-3 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.10 | % | ASTM D570 |
| MECHANICAL | NOMINAL VALUE | UNIT | TEST METHOD |
| Tensile Modulus | 1.50E+6 | psi | ASTM D638 |
| Tensile Strength | 20500 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 2.0 to 4.0 | % | ASTM D638 |
| Flexural Modulus | 1.45E+6 | psi | ASTM D790 |
| Flexural Strength | 29500 | psi | ASTM D790 |
| IMPACT | NOMINAL VALUE | UNIT | TEST METHOD |
| Notched Izod Impact (0.125 in) | 1.7 | ft·lb/in | ASTM D256 |
| Unnotched Izod Impact (0.125 in) | 16 | ft·lb/in | ASTM D4812 |
| THERMAL | NOMINAL VALUE | UNIT | TEST METHOD |
| Deflection Temperature Under Load 264 psi, Unannealed | 550 | °F | ASTM D648 |

| INJECTION | NOMINAL VALUE | UNIT |
|------------------------|------------------|------|
| Drying Temperature | 300 | °F |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 660 to 740 | °F |
| Mold Temperature | 350 to 400 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 40 to 70 | rpm |
| Vent Depth | 1.5E-3 to 3.0E-3 | in |

NOTES

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