



InStruc® POMCGFM5FC

PRODUCT DESCRIPTION 5% MILLED GLASS FIBER REINFORCED, FOOD CONTACT GRADE ACETAL COPOLYMER

MATERIAL STATUS Commercial: Active

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

FILLER / REINFORCEMENT Milled Glass Fiber, 5.0% Filler by Weight

FEATURES Food Contact Acceptable, Good Dimensional Stability, High Stiffness, High Strength

USES Closures, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Household Goods, Industrial Applications, Office Automation Equipment

FORMS Pellets

PROCESSING METHOD Injection Molding

| PHYSICAL | NOMINAL VALUE | UNIT | TEST METHOD |
|--|---------------|-------------------|-------------|
| Density / Specific Gravity | 1.42 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 1.7 to 2.0 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.16 | % | ASTM D570 |
| MECHANICAL | NOMINAL VALUE | UNIT | TEST METHOD |
| Tensile Modulus | 2620 | MPa | ASTM D638 |
| Tensile Strength | 60.7 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | > 10 | % | ASTM D638 |
| Flexural Modulus | 2620 | MPa | ASTM D790 |
| Flexural Strength | 82.7 | MPa | ASTM D790 |
| IMPACT | NOMINAL VALUE | UNIT | TEST METHOD |
| Notched Izod Impact (3.18 mm) | 64 | J/m | ASTM D256 |
| THERMAL | NOMINAL VALUE | UNIT | TEST METHOD |
| Deflection Temperature Under Load 1.8 MPa, Unannealed | 104 | °C | ASTM D648 |



| INJECTION | NOMINAL VALUE | UNIT |
|------------------------|----------------------|-------------|
| Drying Temperature | 82 | °C |
| Drying Time | 4.0 | hr |
| Dew Point | -32 | °C |
| Processing (Melt) Temp | 199 to 210 | °C |
| Mold Temperature | 82 to 104 | °C |
| Injection Pressure | 68.9 to 103 | MPa |
| Back Pressure | 0.172 to 0.345 | MPa |
| Screw Speed | 30 to 60 | rpm |

NOTES

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

