InStruc® POMCGF10

Product Description 10% GLASS FIBER REINFORCED COPOLYMER ACETAL

Material Status Commercial: Active

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

Filler / Reinforcement Glass Fiber, 10% Filler by Weight

Features Filled, Good Dimensional Stability, High Stiffness, High Strength

Uses Closures, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Household Goods, Industrial Applications, Office Automation Equipment, Window & Door Components

Forms Pellets

Processing Method Injection Molding

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.47	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.70 to 1.2	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4480	MPa	ASTM D638
Tensile Strength	79.3	MPa	ASTM D638
Tensile Elongation (Yield)	4.0 to 6.0	%	ASTM D638
Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	117	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D4812

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	132	°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+17	ohms	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.6 mm	HB		
3.0 mm	HB		

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.