

InStruc® POMCGF10

Americhem - Acetal (POM) Copolymer Alloy

General Information

Product Description

10% GLASS FIBER REINFORCED COPOLYMER ACETAL

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • 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

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.47		ASTM D792
Molding Shrinkage - Flow	7.0E-3 to 0.012	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical			
Tensile Modulus	650000	psi	ASTM D638
Tensile Strength	11500	psi	ASTM D638
Tensile Elongation (Yield)	4.0 to 6.0	%	ASTM D638
Flexural Modulus	550000	psi	ASTM D790
Flexural Strength	17000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.0	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	10	ft-lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	270	°F	ASTM D648
Electrical			
Surface Resistivity	> 1.0E+17	ohms	ASTM D257
Flammability			
Flame Rating			UL 94
0.06 in		HB	
0.12 in		HB	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	180	°F
Drying Time	4.0	hr
Dew Point	-25	°F
Processing (Melt) Temp	390 to 410	°F
Mold Temperature	180 to 220	°F
Injection Pressure	10000 to 15000	psi
Back Pressure	25.0 to 50.0	psi
Screw Speed	30 to 60	rpm

