

**InStruc® POMCGF20**

Americhem - Acetal (POM) Copolymer

**General Information**
**Product Description**

20% GLASS FIBER REINFORCED COPOLYMER ACETAL

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% 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 <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.56		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 8.0E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Modulus	1.15E+6	psi	ASTM D638
Tensile Strength (Yield)	17500	psi	ASTM D638
Tensile Elongation (Yield)	2.9	%	ASTM D638
Flexural Modulus	1.18E+6	psi	ASTM D790
Flexural Strength (Yield)	27000	psi	ASTM D790
Poisson's Ratio	0.35		ASTM E132
<b>Impact</b>			
Notched Izod Impact (0.125 in)	1.3	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	11	ft·lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	325	°F	ASTM D648
<b>Electrical</b>			
Surface Resistivity	1.0E+17	ohms	ASTM D257
<b>Flammability</b>			
Flame Rating (0.06 in)	HB		UL 94

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	180	°F
Drying Time	4.0	hr
Processing (Melt) Temp	375 to 410	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

