

**InStruc® POMCGF5**

Americhem - Acetal (POM) Copolymer Alloy

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

5% GLASS FIBER REINFORCED ACETAL COPOLYMER

**General**

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> <li>• Africa &amp; Middle East</li> <li>• Asia Pacific</li> <li>• Europe</li> <li>• Latin America</li> <li>• North America</li> </ul>
Filler / Reinforcement	• Glass Fiber, 5.0% Filler by Weight
Features	<ul style="list-style-type: none"> <li>• Filled</li> <li>• Good Dimensional Stability</li> <li>• High Stiffness</li> <li>• High Strength</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Closures</li> <li>• Consumer Applications</li> <li>• Electrical/Electronic Applications</li> <li>• Engineering Parts</li> <li>• Household Goods</li> <li>• Industrial Applications</li> <li>• Office Automation Equipment</li> <li>• Window &amp; Door Components</li> </ul>
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.44		ASTM D792
Molding Shrinkage - Flow	0.012 to 0.018	in/in	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
<b>Mechanical</b>			
Tensile Modulus	500000	psi	ASTM D638
Tensile Strength	9000	psi	ASTM D638
Tensile Elongation (Yield)	8.0 to 10	%	ASTM D638
Flexural Modulus	450000	psi	ASTM D790
Flexural Strength	12500	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	1.0	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	250	°F	ASTM D648

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
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

