

**InStruc® POMCGFM5FC**

Americhem - Acetal (POM) Copolymer Alloy

## General Information

**Product Description**

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

**General**

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

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.42		ASTM D792
Molding Shrinkage - Flow	0.017 to 0.020	in/in	ASTM D955
Water Absorption (24 hr)	0.16	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	380000	psi	ASTM D638
Tensile Strength	8800	psi	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	380000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.2	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	220	°F	ASTM D648

## Processing Information

Injection	Nominal Value	Unit
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

