

**InStruc® POMCGB25**

Americhem - Acetal (POM) Copolymer

## General Information

**Product Description**

25% GLASS BEAD FILLED, COPOLYMER ACETAL

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Bead, 25% Filler by Weight
Features	• Filled • Good Dimensional Stability
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>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.59		ASTM D792
Molding Shrinkage - Flow	0.015 to 0.020	in/in	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	500000	psi	ASTM D638
Tensile Strength	6400	psi	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	450000	psi	ASTM D790
Flexural Strength	10500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	0.70	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	7.5	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	315	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17	ohms	ASTM D257

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	4.0	hr
Processing (Melt) Temp	390 to 410	°F
Mold Temperature	180 to 220	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

