

InStruc® POMHGF25
Americhem - Acetal (POM) Homopolymer
General Information
Product Description

25% GLASS FIBER REINFORCED HOMOPOLYMER ACETAL

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 25% 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	1.60		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	1.40E+6	psi	ASTM D638
Tensile Strength	18000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.30E+6	psi	ASTM D790
Flexural Strength	26000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	0.90	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	310	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
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

