

InStruc® POMCGF20CCMD

Americhem - Acetal (POM) Copolymer

General Information

Product Description

20% GLASS FIBER REINFORCED, CHEMICALLY COUPLED, COPOLYMER ACETAL (LOCKED MEDICAL FORMULATION)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Autoclave Sterilizable	• Filled	• High Stiffness
	• Chemically Coupled	• Good Dimensional Stability	• High Strength
	• Ethylene Oxide Sterilizable	• Heat Sterilizable	• Steam Sterilizable
Uses	• Closures	• Housings	• Window & Door Components
	• Electrical/Electronic Applications	• Medical/Healthcare Applications	
	• Engineering Parts	• Surgical Instruments	
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.56		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	1.15E+6	psi	ASTM D638
Tensile Strength	17500	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.10E+6	psi	ASTM D790
Flexural Strength	27000	psi	ASTM D790
Impact			
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
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	325	°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

