

InStruc® PSUGF5

Americhem - Polysulfone

General Information

Product Description

5% GLASS FIBER REINFORCED POLYSULFONE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 5.0% Filler by Weight		
Features	• Filled	• High Stiffness	
	• Good Dimensional Stability	• High Strength	
Uses	• Aerospace Applications	• Housings	• Oil/Gas Applications
	• Connectors	• Industrial Applications	• Outdoor Applications
	• Consumer Applications	• Industrial Parts	• Semiconductor Applications
	• Electrical/Electronic Applications	• Metal Replacement	
	• Engineering Parts	• Military/Defense Applications	
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.27		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.20	%	ASTM D570
Mechanical			
Tensile Strength	11000	psi	ASTM D638
Tensile Elongation (Yield)	6.0 to 9.0	%	ASTM D638
Flexural Modulus	475000	psi	ASTM D790
Impact			
Notched Izod Impact	1.1	ft·lb/in	ASTM D256
Unnotched Izod Impact	22	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	345	°F	ASTM D648
Electrical			
Volume Resistivity	> 1.0E+13	ohms·cm	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	275	°F
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	640 to 680	°F
Mold Temperature	300	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

