

InStruc® PSUGF30

Americhem - Polysulfone

General Information

Product Description

30% GLASS FIBER REINFORCED POLYSULFONE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	
Uses	• Aerospace Applications • Connectors • Consumer Applications • Electrical/Electronic Applications • Engineering Parts	• Housings • Industrial Applications • Industrial Parts • Metal Replacement • Military/Defense Applications	• Oil/Gas Applications • Outdoor Applications • Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.46		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.20	%	ASTM D570
Mechanical			
Tensile Strength (Break)	16000	psi	ASTM D638
Tensile Elongation (Break)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	1.10E+6	psi	ASTM D790
Impact			
Notched Izod Impact	1.3	ft·lb/in	ASTM D256
Unnotched Izod Impact	7.0 to 9.0	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	365	°F	ASTM D648
Electrical			
Volume Resistivity	> 1.0E+15	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	620 to 700	°F
Mold Temperature	300	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

