

InStruc® PPSUGF15

Americhem - Polyphenylsulfone

General Information

Product Description

15% GLASS FIBER REINFORCED POLYPHENYLSULFONE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 15% 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	1.39		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	750000	psi	ASTM D638
Tensile Strength (Break)	14000	psi	ASTM D638
Tensile Elongation (Break)	2.0 to 5.0	%	ASTM D638
Flexural Modulus	675000	psi	ASTM D790
Flexural Strength (Yield)	20000	psi	ASTM D790
Impact			
Notched Izod Impact	1.5	ft·lb/in	ASTM D256
Unnotched Izod Impact	15	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	420	°F	ASTM D648

Processing Information

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

