

InStruc® PSGF20

Americhem - General Purpose Polystyrene

General Information

Product Description			
15% GLASS FIBER REINFORCED POLYSTYRENE			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	
Uses	• Closures • Connectors • Consumer Applications	• Electrical/Electronic Applications • Household Goods • Industrial Applications	• Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3 to 3.0E-3	in/in	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	10600	psi	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	16200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	0.90	ft·lb/in	ASTM D256
Unnotched Izod Impact	3.0 to 4.0	ft·lb/in	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+18	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	170	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	410 to 480	°F
Mold Temperature	100 to 150	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

