

InLube® PPSGF30TF10

Americhem - Polyphenylene Sulfide

General Information

Product Description

30% GLASS FIBER REINFORCED/ 10% PTFE LUBRICATED POLYPHENYLENE SULFIDE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• PTFE Lubricant: 10%		
Features	• Branched Polymer Structure	• Good Mold Release	• Lubricated
	• Chemical Resistant	• High Stiffness	• Wear Resistant
	• Filled	• High Strength	
	• Good Dimensional Stability	• Low Friction	
Uses	• Aerospace Applications	• Engineering Parts	• Military/Defense Applications
	• Connectors	• Industrial Applications	• Oil/Gas Applications
	• Consumer Applications	• Industrial Parts	• Outdoor Applications
	• Electrical/Electronic Applications	• Metal Replacement	• Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.63		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-4 to 2.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.040	%	ASTM D570
Mechanical			
Tensile Strength (Break)	20100	psi	ASTM D638
Tensile Elongation (Break)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	1.65E+6	psi	ASTM D790
Impact			
Notched Izod Impact	1.7	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	505	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+18	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	600 to 630	°F
Mold Temperature	275 to 350	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	3.0E-4 to 5.0E-4	in

