

InElec® PSUCF15

Americhem - Polysulfone

General Information

Product Description

15% CARBON FIBER FILLED POLYSULFONE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight		
Features	• ESD Protection	• Good Dimensional Stability	• High Strength
	• Filled	• High Stiffness	• Permanent Antistatic
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	1.30		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical			
Tensile Strength (Break)	16000	psi	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.20E+6	psi	ASTM D790
Impact			
Notched Izod Impact	1.5	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	360	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	275	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	620 to 700	°F
Middle Temperature	620 to 700	°F
Front Temperature	620 to 700	°F
Processing (Melt) Temp	640 to 660	°F
Mold Temperature	300	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

