

InStruc® PSUBS6

Americhem - Polysulfone

General Information
Product Description

6% BARIUM SULFATE FILLED POLYSULFONE (PSU)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Barium Sulfate, 6.0% Filler by Weight		
Features	• Good Dimensional Stability	• Radiopaque	
Uses	• Aerospace Applications • Connectors • Consumer Applications • Electrical/Electronic Applications	• Engineering Parts • Housings • Industrial Applications • Industrial Parts	• Military/Defense Applications • Oil/Gas Applications • Outdoor Applications • Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Molding Shrinkage - Flow (0.125 in)	8.0E-3 to 0.010	in/in	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	370000	psi	ASTM D638
Tensile Strength	9500	psi	ASTM D638
Tensile Elongation (Yield)	7.0 to 12	%	ASTM D638
Flexural Modulus	350000	psi	ASTM D790
Flexural Strength	16000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.2	ft-lb/in	ASTM D256
Unnotched Izod Impact	30	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	345	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	275	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	650 to 700	°F
Mold Temperature	275 to 300	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

