

InStruc® PFAGF25
Americhem - Perfluoroalkoxy
General Information
Product Description

25% GLASS FIBER REINFORCED PFA

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	
Uses	• Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Housings	• HVAC Applications • Industrial Applications • Industrial Parts • Metal Replacement	• Oil/Gas Applications • Pump Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	2.22		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 5.0E-3	in/in	
Water Absorption (Equilibrium)	0.035	%	ASTM D570
Mechanical			
Tensile Strength (Break)	6000	psi	ASTM D638
Tensile Elongation (Break)	4.0 to 6.0	%	ASTM D638
Flexural Modulus	700000	psi	ASTM D790
Flexural Strength	11000	psi	ASTM D790
Impact			
Notched Izod Impact	6.0	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
Flammability			
Flame Rating (0.06 in)	V-0		

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	650 to 750	°F
Mold Temperature	250 to 450	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

