

InStruc® PVDFCF15A
Americhem - Polyvinylidene Fluoride
General Information
Product Description

15% CARBON FIBER REINFORCED, HIGH STRENGTH PVDF

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	
Uses	• Connectors • Consumer Applications • Electrical/Electronic Applications • Engineering Parts	• Housings • 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	1.76		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	2.00E+6	psi	ASTM D638
Tensile Strength	20000	psi	ASTM D638
Tensile Elongation (Yield)	3.5	%	ASTM D638
Impact			
Notched Izod Impact	1.8	ft-lb/in	ASTM D256
Electrical			
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	4.0	hr
Processing (Melt) Temp	420 to 450	°F
Mold Temperature	150 to 200	°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.
