

InStruc® PPGF45CC

Americhem - Polypropylene

General Information
Product Description

45% GLASS FIBER REINFORCED, CHEMICALLY COUPLED, POLYPROPYLENE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight		
Features	• Chemically Coupled	• Good Dimensional Stability	• High Strength
	• Filled	• High Stiffness	
Uses	• Battery Cases	• Consumer Applications	• HVAC Applications
	• Closures	• Electrical/Electronic Applications	• Industrial Applications
	• Connectors	• Housings	• Industrial Parts
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.28		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	14000	psi	ASTM D638
Flexural Modulus	1.10E+6	psi	ASTM D790
Flexural Strength	20000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.2	ft·lb/in	ASTM D256
Unnotched Izod Impact	10 to 14	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+17	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	170	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	440	°F
Mold Temperature	100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

