

InStruc® PPGF15CC
Americhem - Polypropylene
General Information
Product Description

15% GLASS FIBER REINFORCED, CHEMICALLY COUPLED POLYPROPYLENE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Features	• Chemically Coupled • Filled	• Good Dimensional Stability • High Stiffness	• High Strength
Uses	• Battery Cases • Closures • Connectors	• Consumer Applications • Electrical/Electronic Applications • Housings	• HVAC Applications • Industrial Applications • Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.01		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 7.0E-3	in/in	
Water Absorption (Equilibrium)	0.020	%	ASTM D570
Mechanical			
Tensile Modulus	500000	psi	ASTM D638
Tensile Strength	7500	psi	ASTM D638
Flexural Modulus	400000	psi	ASTM D790
Flexural Strength	11000	psi	ASTM D790
Impact			
Notched Izod Impact	1.3	ft·lb/in	ASTM D256
Unnotched Izod Impact	10	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	250	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+18	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	170	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	100 to 150	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

