

InStruc® PPGF20CC

Americhem - Polypropylene

General Information
Product Description

20% 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, 20% 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	1.03		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.20 to 0.50	in/in	ASTM D955
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Mechanical			
Tensile Strength (Break)	9000	psi	ASTM D638
Tensile Elongation (Break)	4.0 to 5.0	%	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Flexural Strength	12500	psi	ASTM D790
Impact			
Notched Izod Impact	1.8	ft·lb/in	ASTM D256
Unnotched Izod Impact	10 to 12	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+17	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

