InStruc® PPGF10GB15CC

Americhem - *Polypropylene*

General Information

Product Description			
10% GLASS FIBER REINFORCED AND 15% GLASS BEAD FILLED, CHEMICALLY COUPLED POLYPROPYLENE			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Bead, 15% Filler by Weight	• Glass Fiber, 10% 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]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.07		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	4500	psi	ASTM D638
Tensile Elongation (Yield)	5.0 to 10	%	ASTM D638
Flexural Modulus	350000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	0.60	ft·lb/in	ASTM D256
Unnotched Izod Impact	6.0 to 10	ft·lb/in	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	235	°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	380 to 440	°F
Mold Temperature	100 to 150	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm