

InStruc® PCGF10HFMRFR

Americhem - Polycarbonate

General Information

Product Description

10% GLASS FIBER REINFORCED, HIGH FLOW, FLAME RETARDANT POLYCARBONATE WITH MOLD RELEASE

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Additive	• Flame Retardant • Mold Release
Features	• Filled • Flame Retardant • Good Dimensional Stability • Good Mold Release • Halogenated • High Flow • High Stiffness • High Strength • Lubricated
Uses	• Automotive Applications • Closures • Connectors • Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Household Goods • Housings • Industrial Applications • Industrial Parts • Office Automation Equipment
Forms	• Pellets
Processing Method	• Injection Molding

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.32		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.18	%	ASTM D570
Mechanical			
Tensile Modulus	660000	psi	ASTM D638
Tensile Strength	12500	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 7.0	%	ASTM D638
Flexural Modulus	690000	psi	ASTM D790
Flexural Strength	22400	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.0 to 2.0	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
Electrical			
Surface Resistivity	> 1.0E+17	ohms	ASTM D257
Flammability			
Flame Rating			UL 94
0.06 in		V-2	
0.12 in		V-0	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	520 to 580	°F
Mold Temperature	180 to 240	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

