

InElec® PCCF10GF20HFMRFR

Americhem - Polycarbonate

General Information
Product Description

10% CARBON FIBER, 20% GLASS FIBER REINFORCED, HIGH FLOW, FLAME RETARDANT POLYCARBONATE WITH MOLD RELEASE

General

Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Filler / Reinforcement	<ul style="list-style-type: none"> Carbon Fiber, 10% Filler by Weight 	<ul style="list-style-type: none"> Glass Fiber, 20% Filler by Weight 	
Additive	<ul style="list-style-type: none"> Flame Retardant 	<ul style="list-style-type: none"> Mold Release 	
Features	<ul style="list-style-type: none"> Filled Flame Retardant Good Dimensional Stability Good Mold Release 	<ul style="list-style-type: none"> Halogenated Heat Stabilized High Flow High Stiffness 	<ul style="list-style-type: none"> High Strength Lubricated Permanent Antistatic
Uses	<ul style="list-style-type: none"> Automotive Applications Closures Connectors Consumer Applications 	<ul style="list-style-type: none"> Electrical/Electronic Applications Engineering Parts Household Goods Housings 	<ul style="list-style-type: none"> Industrial Applications Industrial Parts Office Automation Equipment
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.45		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.18	%	ASTM D570
Mechanical			
Tensile Modulus	2.00E+6	psi	ASTM D638
Tensile Strength	21000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	2.00E+6	psi	ASTM D790
Flexural Strength	32500	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.9	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	10	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Flammability			
Flame Rating			UL 94
0.06 in		V-0	
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	580 to 620 °F
Mold Temperature	180 to 240 °F
Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

