

InElec® PCCF30HFMR

Americhem - Polycarbonate

General Information

Product Description

30% CARBON FIBER REINFORCED HIGH FLOW 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, 30% Filler by Weight 		
Features	<ul style="list-style-type: none"> Electrically Conductive ESD Protection Filled 	<ul style="list-style-type: none"> Good Dimensional Stability Good Mold Release High Flow 	<ul style="list-style-type: none"> High Stiffness High Strength 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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33		ASTM D792
Specific Volume	20.8	in ³ /lb	
Molding Shrinkage - Flow	5.0E-4 to 1.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	24000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	1.90E+6	psi	ASTM D790
Flexural Strength	35000	psi	ASTM D790
Shear Strength	10000	psi	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.8	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	10	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
CLTE - Flow	9.0E-6	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	4.0	hr
Processing (Melt) Temp	540 to 630	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

