

InElec® PCABSCF20FR

Americhem - Polycarbonate + ABS

General Information

Product Description

20% CARBON FIBER REINFORCED, FLAME RETARDANT POLYCARBONATE/ABS ALLOY

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 20% Filler by Weight		
Additive	• Flame Retardant		
Features	• Electrically Conductive • ESD Protection • Filled	• Flame Retardant • Good Dimensional Stability • Halogenated	• High Stiffness • High Strength • Permanent Antistatic
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	1.31		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.20 to 0.40	in/in	
Water Absorption (24 hr)	0.12	%	ASTM D570
Mechanical			
Tensile Strength	9150	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.10E+6	psi	ASTM D790
Flexural Strength	16000	psi	ASTM D790
Impact			
Notched Izod Impact	1.0	ft·lb/in	ASTM D256
Unnotched Izod Impact	5.0 to 7.0	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	285	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	200	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	475 to 510	°F
Mold Temperature	125 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

