

InElec® PCABSCF30

Americhem - Polycarbonate + ABS

General Information
Product Description

30% CARBON FIBER REINFORCED, POLYCARBONATE/ABS ALLOY, BLACK COLOR

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight		
Features	• Electrically Conductive • ESD Protection • Filled	• Good Dimensional Stability • 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	1.33		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 Modulus	1.90E+6	psi	ASTM D638
Tensile Strength	19000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	2.00E+6	psi	ASTM D790
Flexural Strength	27000	psi	ASTM D790
Impact			
Notched Izod Impact	1.5	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

