

**InElec® PCABSNC20**

Americhem - Polycarbonate + ABS

## General Information

**Product Description**

20% NICKEL COATED CARBON FIBER REINFORCED POLYCARBONATE/ABS ALLOY

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Nickel-Coated Carbon Fiber, 20% Filler by Weight		
Features	• Electrically Conductive • Electromagnetic Shielding (EMI) • ESD Protection	• Good Dimensional Stability • High Stiffness • High Strength	• Permanent Antistatic • Radio Frequency Shielding (RFI)
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 <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.70E+6	psi	ASTM D638
Tensile Strength	16000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 2.5	%	ASTM D638
Flexural Modulus	1.50E+6	psi	ASTM D790
Flexural Strength	24000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.0	ft·lb/in	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+3	ohms	ASTM D257
Additional Information	Nominal Value	Unit	Test Method
Attenuation - @ 30 - 1000 MHz	55.0 to 65.0	dB	ASTM D4935

## Processing Information

	Nominal Value	Unit
Drying Temperature	200	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	490 to 520	°F
Mold Temperature	125 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

