

**InElec® PPCF20**

Americhem - Polypropylene

**General Information**
**Product Description**

20% CARBON FIBER REINFORCED, ELECTRICALLY CONDUCTIVE POLYPROPYLENE

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Carbon Fiber, 20% Filler by Weight		
Features	• Electrically Conductive	• Good Dimensional Stability	• Permanent Antistatic
	• ESD Protection	• High Stiffness	
	• Filled	• High Strength	
Uses	• Closures	• Electrical/Electronic Applications	• Industrial Applications
	• Connectors	• Housings	• Industrial Parts
	• Consumer Applications	• HVAC Applications	
Forms	• Pellets		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.00		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 5.0E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Strength (Break)	6800	psi	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	9500	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact	1.0	ft·lb/in	ASTM D256
Unnotched Izod Impact	2.5	ft·lb/in	ASTM D4812
<b>Electrical</b>			
Surface Resistivity	1.0E+2 to 1.0E+5	ohms	ASTM D257

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	170	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

