

InElec® PPCF15
Americhem - Polypropylene
General Information
Product Description

15% CARBON FIBER REINFORCED, ELECTRICALLY CONDUCTIVE POLYPROPYLENE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	• Permanent Antistatic
Uses	• Closures • Connectors • Consumer Applications	• Electrical/Electronic Applications • Housings • HVAC Applications	• Industrial Applications • Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.970		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.30E+6	psi	ASTM D638
Tensile Strength (Break)	6000	psi	ASTM D638
Tensile Elongation (Break)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	9500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	0.50	ft·lb/in	ASTM D256
Unnotched Izod Impact	2.5	ft·lb/in	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
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

