

InElec® PPOCF20

Americhem - Polyphenylene Ether + PS

General Information
Product Description

20% CARBON FIBER REINFORCED PPO / PPE

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	• Connectors • Electrical/Electronic Applications • Consumer Applications • Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.16		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Mechanical			
Tensile Modulus	1.50E+6	psi	ASTM D638
Tensile Strength	15000	psi	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.30E+6	psi	ASTM D790
Flexural Strength	23500	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.0	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	295	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	225	°F
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	540 to 590	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

