InElec® PPGF5

Americhem - *Polypropylene*

General Information

Product Description			
ELECTRICALLY CONDUCTIVE, 5% GLASS FIBER REINFORCED POLYPROPYLENE			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 5.0% Filler by Weight		
Additive	• Carbon Black		
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	1.02		ASTM D792
Molding Shrinkage - Flow (0.125 in)	6.0E-3 to 9.0E-3	in/in	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	280000	psi	ASTM D638
Tensile Strength	3800	psi	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	250000	psi	ASTM D790
Flexural Strength	5400	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	8.0	ft·lb/in	ASTM D256
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