

**InElec® PA66CF30IM**

Americhem - Polyamide 66

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

30% CARBON FIBER REINFORCED, IMPACT MODIFIED NYLON 6/6

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight		
Additive	• Impact Modifier		
Features	• Electrically Conductive • ESD Protection • Filled • Good Dimensional Stability	• High Impact Resistance • High Stiffness • High Strength • Impact Modified	• Low Temperature Toughness • Permanent Antistatic
Uses	• Closures • Connectors • Consumer Applications • Electrical/Electronic Applications	• Engineering Parts • Household Goods • Industrial Applications • Industrial Parts	• Office Automation Equipment • Outdoor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.21		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 2.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength	25000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	2.10E+6	psi	ASTM D790
Flexural Strength	40000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	3.0	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	19	ft·lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	470	°F	ASTM D648
CLTE - Flow	1.2E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	500 to 575	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

