

InElec® PA6GF10CF20

Americhem - Polyamide 6

General Information
Product Description

10% GLASS FIBER AND 20% CARBON FIBER REINFORCED NYLON 6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 20% Filler by Weight	• Glass Fiber, 10% Filler by Weight	
Features	• Electrically Conductive • Filled	• Good Dimensional Stability • High Stiffness	• High Strength • 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 ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.30		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	2.20E+6	psi	ASTM D638
Tensile Strength	28000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.80E+6	psi	ASTM D790
Flexural Strength	38000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.3	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	425	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	480 to 540	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

