

InElec® PA6GF20AS

Americhem - Polyamide 6

General Information
Product Description

20% GLASS FIBER REINFORCED, PERMANENTLY ANTI-STATIC NYLON 6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Additive	• Antistatic		
Features	• Filled	• High Stiffness	• Permanent Antistatic
	• Good Dimensional Stability	• High Strength	
Uses	• Closures	• Engineering Parts	• Office Automation Equipment
	• Connectors	• Household Goods	• Outdoor Applications
	• Consumer Applications	• Industrial Applications	
	• Electrical/Electronic Applications	• Industrial Parts	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.27		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	800000	psi	ASTM D638
Tensile Strength	14000	psi	ASTM D638
Tensile Elongation (Yield)	3.5	%	ASTM D638
Flexural Modulus	700000	psi	ASTM D790
Flexural Strength	17000	psi	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	3.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	350	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 to 1.0E+10	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	460 to 480	°F
Mold Temperature	180 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

