

InElec® PA66CF20HS

Americhem - Polyamide 66

General Information
Product Description

20% CARBON FIBER REINFORCED, HEAT STABILIZED NYLON 6/6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Carbon Fiber, 20% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Electrically Conductive	• Good Dimensional Stability	• High Strength
	• ESD Protection	• Heat Stabilized	• Permanent Antistatic
	• Filled	• High Stiffness	
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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Molding Shrinkage - Flow	5.0E-4 to 2.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.25E+6	psi	ASTM D638
Tensile Strength	30000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.80E+6	psi	ASTM D790
Flexural Strength	43000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.2	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	12	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	495	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+3	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
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

