

InElec® PA66CF10

Americhem - Polyamide 66

General Information
Product Description

InElec® PA66CF10 is a 10% carbon fiber filled nylon 66. InElec® PA66CF10 has great strength, stiffness, and heat resistance.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
Features	• 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	1.18		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	1.30E+6	psi	ASTM D638
Tensile Strength	16700	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.15E+6	psi	ASTM D790
Flexural Strength	25000	psi	ASTM D790
Impact			
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			
Deflection Temperature Under Load (264 psi, Unannealed)	470	°F	ASTM D648
Electrical			
Surface Resistivity	< 1.0E+6	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	530 to 575	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

