

InElec® PA66CF10GF25

Americhem - Polyamide 66

General Information
Product Description

10% CARBON FIBER AND 25% GLASS FIBER REINFORCED NYLON 6/6

General

Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Filler / Reinforcement	<ul style="list-style-type: none"> Carbon Fiber, 10% Filler by Weight 	<ul style="list-style-type: none"> Glass Fiber, 25% Filler by Weight 	
Features	<ul style="list-style-type: none"> Filled Good Dimensional Stability 	<ul style="list-style-type: none"> High Stiffness High Strength 	<ul style="list-style-type: none"> Permanent Antistatic
Uses	<ul style="list-style-type: none"> Closures Connectors Consumer Applications Electrical/Electronic Applications 	<ul style="list-style-type: none"> Engineering Parts Household Goods Industrial Applications Industrial Parts 	<ul style="list-style-type: none"> Office Automation Equipment Outdoor Applications
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.38		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.00E+6	psi	ASTM D638
Tensile Strength	30000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	1.80E+6	psi	ASTM D790
Flexural Strength	39000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.5	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	16	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	490	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	500 to 575	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

