

InElec® PA66CF30FRHS

Americhem - Polyamide 66

General Information

Product Description

30% CARBON FIBER REINFORCED, FLAME RETARDANT, HEAT STABILIZED 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 Europe Latin America North America
Filler / Reinforcement	<ul style="list-style-type: none"> Carbon Fiber, 30% Filler by Weight
Additive	<ul style="list-style-type: none"> Flame Retardant Heat Stabilizer
Features	<ul style="list-style-type: none"> Electrically Conductive ESD Protection Filled Flame Retardant Good Dimensional Stability Halogenated Heat Stabilized High Stiffness High Strength Permanent Antistatic
Uses	<ul style="list-style-type: none"> Closures Connectors Consumer Applications Electrical/Electronic Applications Engineering Parts Household Goods Industrial Applications Industrial Parts 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

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.48		ASTM D792
Molding Shrinkage - Flow	5.0E-4 to 1.5E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Mechanical			
Tensile Modulus	3.30E+6	psi	ASTM D638
Tensile Strength	30000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	2.75E+6	psi	ASTM D790
Flexural Strength	48000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.5	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	11 to 13	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	495	°F	ASTM D648
Electrical			
Surface Resistivity	< 1.0E+6	ohms	ASTM D257
Flammability			
Flame Rating			UL 94
0.06 in		V-0	
0.12 in		V-0	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	530 to 570	°F



Mold Temperature	150 to 225 °F
Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

