

Stat-Tech™ NN-20CF/000 HI2 BK

Polyamide 66
PolyOne Corporation

Message:

Stat-Tech™ Electrically Conductive Compounds are specifically engineered to provide anti-static, ESD and RFI/EMI shielding performance for critical electronic equipment applications. These compounds combine the performance of select engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber for low to high levels of conductivity depending upon application requirements.

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Good Chemical Resistance		
	High Elongation		
	High Heat Resistance		
	High Impact Resistance		
	High Stiffness		
	Semi Crystalline		
Uses	Aerospace Applications		
	Automotive Electronics		
	Business Equipment		
	Computer Components		
	Connectors		
	Consumer Applications		
	Electrical Housing		
	Electrical/Electronic Applications		
	Housings		
	Sporting Goods		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density ¹ (23°C)	1.16	g/cm ³	ISO 1183
Molding Shrinkage ²			ASTM D955
Flow	0.050 to 0.20	%	
Across Flow	1.5 to 1.9	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm)	11000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C, 4.00 mm)	155	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C, 4.00 mm)	4.0	%	ISO 527-2/5
Flexural Modulus	10300	MPa	ISO 178

Flexural Strength			
--	231	MPa	ASTM D790
--	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	261	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms·cm	ASTM D257
Static Decay - (Mil-B-81705C), 12% RH, 5000 kV to 50 kV	0.003	sec	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	288 to 304	°C	
NOTE			
1.	±0.03		
2.	Bergmann method		

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