

Stat-Tech™ NN-20CF/000 Black

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 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
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10 to 0.50	%	
Across Flow	1.0 to 2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	193	MPa	ASTM D638
Tensile Elongation ¹ (Break)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	290	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	69	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	250	°C	ASTM D648
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	282 to 299	°C	
NOTE			
1.	Type I, 5.1 mm/min		

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