Stat-Tech™ NN-20CF/000 Black HS

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 Heat 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/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.050 to 0.20	%	
Across Flow	1.7 to 1.9	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	12800	MPa	ASTM D638
Tensile Strength (Break)	172	MPa	ASTM D638
Tensile Elongation [2] (Break)	2.2	%	ASTM D638
Flexural Modulus	11900	MPa	ASTM D790
Flexural Strength	231	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	48	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	261	°C	
1.8 MPa, Unannealed, 6.35 mm	250	°C	
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.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

Recommended distributors for this material

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