Stat-Tech™ NN-20CF/000 SO1

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/cm³	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 S	Strength
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Flexural Strength			
	231	MPa	ASTM D790
	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	kJ/m²	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
Electrical Surface Resistivity	Nominal Value 1.0E+2 to 1.0E+4	Unit ohms	Test Method ASTM D257
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Surface Resistivity Volume Resistivity Static Decay - (Mil-B-81705C), 12% RH,	1.0E+2 to 1.0E+4 1.0E+2 to 1.0E+4	ohms ohms·cm	ASTM D257
Surface Resistivity Volume Resistivity Static Decay - (Mil-B-81705C), 12% RH, 5000 kV to 50 kV	1.0E+2 to 1.0E+4 1.0E+2 to 1.0E+4 0.003	ohms ohms·cm sec	ASTM D257
Surface Resistivity Volume Resistivity Static Decay - (Mil-B-81705C), 12% RH, 5000 kV to 50 kV Injection	1.0E+2 to 1.0E+4 1.0E+2 to 1.0E+4 0.003 Nominal Value	ohms ohms·cm sec Unit	ASTM D257
Surface Resistivity Volume Resistivity Static Decay - (Mil-B-81705C), 12% RH, 5000 kV to 50 kV Injection Processing (Melt) Temp	1.0E+2 to 1.0E+4 1.0E+2 to 1.0E+4 0.003 Nominal Value	ohms ohms·cm sec Unit	ASTM D257

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