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 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**
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		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT