Stat-Tech™ NN-20GF-15MCF/000 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	Glass\Carbon Fiber,35% Filler by Weight		
Features	Electrically Conductive 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**
Density [1] (23°C)	1.37	g/cm³	ISO 1183
Molding Shrinkage - Flow [2] (23°C, 4.00 mm)	0.10 to 0.40	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	15500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C, 4.00 mm, Injection Molded)	185	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C, 4.00 mm, Injection Molded)	> 1.5	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (23°C, Injection Molded)	7.5 to 9.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C, Injection Molded)	46 to 55	kJ/m²	ISO 179
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
Flammability	**Nominal Value**	**Unit**	**Test Method**
Glow Wire Flammability Index (0.800 to 3.00 mm)	650	°C	IEC 60695-2-12
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	280 to 300	°C	
NOTE			
1.	±0.03		
2.	Bergmann method		

Recommended distributors for this material

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