Stat-Tech™ NN-40CF/000 NH FRV0 Natural

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			
UL YellowCard	E76261-101483589		
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Good Chemical Resistance High Stiffness Semi Crystalline		
Uses	Aerospace Applications Business Equipment Computer Components Connectors Electrical/Electronic Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.39	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.050 to 0.20	%	
Across Flow	2.3 to 2.4	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	185	MPa	ASTM D638
Tensile Elongation [1] (Break)	1.3	%	ASTM D638
Flexural Modulus	25900	MPa	ASTM D790
Flexural Strength	345	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	50	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	> 245	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**

Surface Resistivity	1.0E+2 to 1.0E+5	ohms	ASTM D257
Volume Resistivity	10 to 1.0E+4	ohms·cm	ASTM D257
Charge Decay Time - (Mil-B-81705C), 12% RH, 5000kV to 50kV	2	msec	
Shielding Effectiveness			
10GHz, 1/8" thickness	70	dB	
1GHz, 1/8" thickness	32	dB	
5GHz, 1/8" thickness	53	dB	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.750 mm	V-0		
	V-0		
1.50 mm	5VB		
	V-0		
3.00 mm	5VA		
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	850	°C	
1.50 mm	850	°C	
3.00 mm	850	°C	
Injection	**Nominal Value**	**Unit**	
Drying Temperature	71.1 to 82.2	°C	
NOTE			
1.	Type I, 5.1 mm/min		

Recommended distributors for this material

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