

# Stat-Tech™ NN-40CF/000 FRV0 Natural

Polyamide 66

PolyOne Corporation

## Message:

Stat-Tech™ Conductive composite materials have anti-static, ESD and RFI/EMI shielding functions in key electronic equipment. These materials combine the advantages of engineering resins and selected reinforcing additives, such as carbon powder, carbon fiber, nickel-plated carbon fiber and stainless steel fiber. According to the application requirements, the conductivity level of these reinforcing additives is from low to high.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
Features	Semicrystallization		
	Rigidity, high		
	Good chemical resistance		
	Flame retardancy		
Uses	Computer components		
	Electrical/Electronic Applications		
	Aerospace applications		
	Connector		
	Business equipment		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	220	MPa	ASTM D638
Flexural Modulus	28000	MPa	ASTM D790
Flexural Strength	360	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	240	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		UL 94
3.00 mm	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	80.0 - 90.0	°C
Drying Time	4.0 - 6.0	hr
Processing (Melt) Temp	260 - 280	°C
Mold Temperature	65.0 - 85.0	°C
Injection instructions		

Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW

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#### Recommended distributors for this material

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