

## PolyOne Stat-Tech™ NN-40CF/000 NH FRV0 Natural Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Stat-Tech-NN-40CF000-NH-FRV0-Natural-Polyamide-66-Nylon-66.php](http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-NN-40CF000-NH-FRV0-Natural-Polyamide-66-Nylon-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.023 - 0.024 cm/cm	0.023 - 0.024 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	205 MPa	29700 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	345 MPa	50000 psi	ASTM D790
Flexural Modulus	25.9 GPa	3760 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.806 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	>= 245 °C	>= 473 °F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	Vertical Burn; UL 94
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 1000 ohm-cm	10 - 1000 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Static Decay	0.0020 sec	0.0020 sec	(Mil-B-81705C), 12% RH, 5000kV to 50kV
Shielding Effectiveness	32 dB	32 dB	1/8 thickness
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
	53 dB	53 dB	
	@Frequency 5.00e+9 Hz	@Frequency 5.00e+9 Hz	1/8 thickness
	70 dB	70 dB	1/8 thickness
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	

Processing Properties	Metric	English	Comments
Drying Temperature	71.1 - 82.2 °C	160 - 180 °F	

Descriptive Properties	Value	Comments
Features	Good Chemical Resistance	
	High Stiffness	
	Semi Crystalline	
Filler / Reinforcement	Carbon Fiber Reinforcement, 40% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Aerospace Applications	

Descriptive Properties	Business Equipment Value	Comments
	Computer Components	
	Connectors	
	Electrical/Electronic Applications	

## Contact Songhan Plastic Technology Co.,Ltd.

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