

PolyOne Stat-Tech™ NN-30CF/000 Black 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-30CF000-Black-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	228 MPa	33100 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	331 MPa	48000 psi	ASTM D790
Flexural Modulus	17.2 GPa	2490 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 1000 ohm-cm	1.0 - 1000 ohm-cm	ASTM D257
Surface Resistance	1.0 - 1000 ohm	1.0 - 1000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	282 - 310 °C	540 - 590 °F	
Mold Temperature	93.3 - 107 °C	200 - 225 °F	
Drying Temperature	71.1 - 82.2 °C	160 - 180 °F	

Descriptive Properties	Value	Comments
Features	Good Chemical Resistance	

Descriptive Properties	Value ^{Stiffness}	Comments
	Semi Crystalline	
Filler / Reinforcement	Carbon Fiber Reinforcement, 30% 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	
	Business Equipment	
	Computer Components	
	Connectors	
	Electrical/Electronic Applications	

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