

PolyOne Stat-Tech™ NJ-20CF/000 Black Polyamide 12 (Nylon 12)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

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-NJ-20CF000-Black-Polyamide-12-Nylon-12.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 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	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	ASTM D638
Elongation at Break	5.2 %	5.2 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	8.00 GPa	1160 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	192 MPa	27800 psi	ASTM D790
Flexural Modulus	8.07 GPa	1170 ksi	ASTM D790
Izod Impact, Notched	1.30 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.44 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)	175 °C @Thickness 6.35 mm	347 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	163 °C @Thickness 6.35 mm	325 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm - 1e+05	1000 ohm-cm - 1e+05	ASTM D257

Electrical Properties	Metricmm - 1e+05	Englishmm - 1e+05	Comments
Static Decay	0.0020 sec	0.0020 sec	(Mil-B-81705C), 12% RH, 5000 kV to 50 kV

Processing Properties	Metric	English	Comments
Melt Temperature	254 - 277 °C	489 - 531 °F	

Descriptive Properties	Value	Comments
Features	Good Chemical Resistance	
	Good Stability	
	Low to No Water Absorption	
Filler / Reinforcement	Carbon Fiber Reinforcement, 20% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 12	
Generic Name	Polyamide 12 (Nylon 12)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Aerospace Applications	
	Automotive Electronics	
	Business Equipment	
	Computer Components	
	Connectors	
	Consumer Applications	
	Electrical Housing	
	Electrical/Electronic Applications	

Descriptive Properties	Value	Comments
	Housings	
	Marine Applications	
	Sporting Goods	

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