

PolyOne Stat-Tech™ NY-20CF/000 BLACK Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

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-NY-20CF000-BLACK-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage, Transverse	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	161 MPa	23400 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	12.1 GPa	1750 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	241 MPa	35000 psi	ASTM D790
Flexural Modulus	10.7 GPa	1550 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.899 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)	219 °C @Thickness 6.35 mm	426 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 °C @Thickness 6.35 mm	401 °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
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D257
Static Decay			(Mil-B-81705C), 12% RH, 5000 kV to

Electrical Properties	0.0020 sec Metric	0.0020 sec English	50 kV Comments
Processing Properties	Metric	English	Comments
Melt Temperature	238 - 277 °C	460 - 531 °F	

Descriptive Properties	Value	Comments
Features	Good Chemical Resistance	
	High Stiffness	
	Semi Crystalline	
Filler / Reinforcement	Carbon Fiber Reinforcement, 20% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
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	
	Housings	

Descriptive Properties	Sporting Goods Value	Comments
------------------------	-------------------------	----------

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China