

PolyOne Stat-Tech™ CTX-1125 Natural Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

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-CTX-1125-Natural-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.017 - 0.018 cm/cm	0.017 - 0.018 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	86.1 MPa	12500 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	7.18 GPa	1040 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.787 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)	109 °C	228 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	Internal Method; UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257
Static Decay	0.0020 sec	0.0020 sec	(Mil-B-81705C), 12% RH, 5000kV to 50kV
	16 dB	16 dB	

Shielding Effectiveness	Metric	English	Comments
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
	26 dB	26 dB	
	@Frequency 5.00e+9 Hz	@Frequency 5.00e+9 Hz	1/8 thickness
	36 dB	36 dB	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	1/8 thickness

Descriptive Properties	Value	Comments
Features	Electromagnetic Shielding (EMI)	
Filler / Reinforcement	Nickel-Coated Carbon Fiber	
Forms	Pellets	
Generic Material	ABS	
Generic Name	Acrylonitrile Butadiene Styrene (ABS)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Aerospace Applications	
	Automotive Electronics	
	Computer Components	
	Connectors	
	Electrical Housing	
	Electrical/Electronic Applications	

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