

PolyOne Stat-Tech™ AS-08CF/000 UV FR V0 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-AS-08CF000-UV-FR-V0-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.5 MPa	9500 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	4.83 GPa	701 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	4.69 GPa	680 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.806 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	BK; Internal Method

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	ASTM D257
Surface Resistance	1.00e+7 ohm	1.00e+7 ohm	ASTM D257

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	221 - 249 °C Metric	430 - 480 °F English	Comments
Mold Temperature	26.7 - 54.4 °C	80.1 - 130 °F	
Drying Temperature	76.7 °C	170 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Antistatic	
	Electromagnetic Shielding (EMI)	
	ESD Protection	
	Radio Frequency Shielding (RFI)	
Filler / Reinforcement	Carbon Fiber Reinforcement, 8.0% Filler by Weight	
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	
RoHS Compliance	RoHS Compliant	
Uses	Aerospace Applications	
	Automotive Under the Hood	
	Business Equipment	
	Electrical/Electronic Applications	
	Housings	
	Printer Parts	

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