

## PolyOne Stat-Tech™ AS-08CF/000 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-Acrylonitrile-Butadiene-Styrene-ABS.php](http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-AS-08CF000-Acrylonitrile-Butadiene-Styrene-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Water Absorption	0.25 % @Thickness 3.18 mm	0.25 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.9 MPa	9990 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	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	0.640 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.20 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.9 °C @Thickness 6.35 mm	210 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.1 °C @Thickness 6.35 mm	205 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
	10000 - 1.00e+6 ohm-	10000 - 1.00e+6 ohm-	

Volume Resistivity Electrical Properties	cm Metric	cm English	ASTM D257 Comments
Surface Resistance	1e+05 - 1.00e+7 ohm	1e+05 - 1.00e+7 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	221 - 232 °C	430 - 450 °F	

Descriptive Properties	Value	Comments
Features	Antistatic	
	ESD Protection	
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	

## Contact Songhan Plastic Technology Co.,Ltd.

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