

PolyOne Stat-Tech™ AS-15CF/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-15CF000-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Water Absorption	0.15 % @Thickness 3.18 mm	0.15 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0015 - 0.0020 cm/cm	0.0015 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	102 MPa	14800 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	2.5 - 4.0 %	2.5 - 4.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	3.96 GPa	574 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	141 MPa	20500 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.760 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.42 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)	85.0 °C @Thickness 6.35 mm	185 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C @Thickness 6.35 mm	167 °F @Thickness 0.250 in	Unannealed; ASTM D648
Flammability, UL94	HB	HB	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 50000 ohm-cm	100 - 50000 ohm-cm	ASTM D257
Surface Resistance	100 - 50000 ohm	100 - 50000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	221 - 249 °C	430 - 480 °F	
Mold Temperature	65.0 - 85.0 °C	149 - 185 °F	
Drying Temperature	80.0 - 85.0 °C	176 - 185 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Electrically Conductive	
	Electromagnetic Shielding (EMI)	
	ESD Protection	
	Radio Frequency Shielding (RFI)	
Filler / Reinforcement	Carbon Fiber Reinforcement, 15% 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	

Descriptive Properties	Value	Comments
	Housings	
	Printer Parts	

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