Stat-Tech™ AS-1000 AS Black

Acrylonitrile Butadiene Styrene

PolyOne Corporation

Message:

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.

General Information			
Features	Antistatic Non-Sloughing		
Uses	Aerospace Applications Automotive Electronics Business Equipment Computer Components Connectors Electrical Housing Electrical/Electronic Applications Housings		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.09	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.90	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	1300	MPa	ASTM D638
Tensile Strength (Yield)	36.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	12	%	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Flexural Strength	50.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	140	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	82.0	°C	
1.8 MPa, Unannealed, 6.35 mm	69.0	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**

Surface Resistivity	1.0E+9 to 1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+9 to 1.0E+11	ohms·cm	ASTM D257
Static Decay			
(Mil-B-81705C), 12% RH, 5000 kV to 50 kV	0.3	sec	
(Mil-B-81705C), 50% RH, 5000 kV to 50 kV	0.1	sec	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	227 to 238	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

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