Stat-Tech™ AS-10CF/000 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			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Antistatic Conductive Electrically Conductive Statically Conductive		
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			ASTM D955
Flow	0.040 to 0.20	%	
Across Flow	0.20 to 0.60	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	5720	MPa	ASTM D638
Tensile Strength (Yield)	68.9	MPa	ASTM D638
Tensile Elongation [2] (Break)	1.2	%	ASTM D638
Flexural Modulus	6620	MPa	ASTM D790
Flexural Strength	105	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	48	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	97.8	°C	
1.8 MPa, Unannealed, 3.18 mm	91.7	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+6	ohms·cm	ASTM D257
Static Decay - (Mil-B-81705C), 12% RH, 5000 kV to 50 kV	2	msec	
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		

Recommended distributors for this material

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