

Stat-Tech™ AS-13CF/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			
UL YellowCard	E76261-101515921		
Filler / Reinforcement	Carbon Fiber, 13% 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	1.10	g/cm ³	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	7720	MPa	ASTM D638
Tensile Strength (Yield)	78.6	MPa	ASTM D638
Tensile Elongation ² (Break)	1.0	%	ASTM D638
Flexural Modulus	8620	MPa	ASTM D790
Flexural Strength	123	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	43	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	98.9	°C	
1.8 MPa, Unannealed, 6.35 mm	95.6	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+5	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		

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