Stat-Tech™ AS-15CF/000

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	E76261-101413498		
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Features	Electrically Conductive Electromagnetic Shielding (EMI) ESD Protection Radio Frequency Shielding (RFI)		
Uses	Aerospace Applications Automotive Under the Hood Business Equipment Electrical/Electronic Applications Housings Printer Parts		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.11	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.15 to 0.20	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.15	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	3960	MPa	ASTM D638
Tensile Strength [2] (Yield)	102	MPa	ASTM D638
Tensile Elongation [3] (Break)	2.5 to 4.0	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	141	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 6.35 mm, Injection Molded)	76	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed, 6.35 mm	85.0	°C	
1.8 MPa, Unannealed, 6.35 mm	75.0	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 5.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 5.0E+4	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	221 to 249	°C	
Mold Temperature	65.0 to 85.0	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		

Recommended distributors for this material

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