Stat-Tech™ ST7300-0005

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 reinforced material, 15% filler by weight		
Features	Conductivity Electromagnetic shielding (EMI) Electrostatic discharge protection Radio frequency shielding (RFI)		
Uses	Electrical/Electronic Applications Aerospace applications Parts under the hood of a car Business equipment Shell Printing machine parts		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.11	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.050 - 0.20	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	70.3	MPa	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	53	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.18mm	100	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	95.0	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 - 5.0E+4	ohms	ASTM D257

Volume Resistivity	1.0E+2 - 5.0E+4	ohms·cm	ASTM D257

Injection	Nominal Value	Unit
Drying Temperature	80 - 85	°C
Drying Time	2.0	hr
Processing (Melt) Temp	221 - 249	°C
Mold Temperature	65 - 85	°C

NOTE	
1.	Type 1, 5.1 mm/min

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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