Stat-Tech™ Stat-Tech™ X0300-8001 EDS BK001

Polycarbonate

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,8.0% Filler by Weight		
Additive	Antistatic		
Features	Antistatic Electromagnetic Shielding (EMI) ESD Protection Flame Retardant 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	1.24	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	2070	MPa	ASTM D638
Tensile Strength [2] (Yield)	86.2	MPa	ASTM D638
Tensile Elongation [3] (Break)	5.0 to 10	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 6.35 mm, Injection Molded)	91	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	139	°C	
1.8 MPa, Unannealed, 6.35 mm	133	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	5.0E+8 to 5.0E+12	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			Internal Method
0.794 mm	V-0		
1.50 mm	V-0		
3.15 mm	V-0		
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120 to 130	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	290 to 310	°C	
Middle Temperature	290 to 310	°C	
Front Temperature	290 to 310	°C	
Mold Temperature	80.0 to 110	°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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