Stat-Tech™ ST9620-0020 ES Red

Liquid Crystal Polymer + PPS

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	E76261-101212306		
Filler / Reinforcement	Nickel-Coated Carbon Fiber		
Features	Electromagnetic Shielding (EMI)		
Uses	Aerospace Applications Automotive Electronics Computer Components Connectors Electrical Housing Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.80	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10 to 0.20	%	
Across Flow	1.4 to 1.5	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	81.4	MPa	ASTM D638
Tensile Elongation [1] (Break)	0.75	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	116	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	22	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	> 245	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	10 to 1.0E+3	ohms·cm	ASTM D257
Charge Decay Time - (Mil-B-81705C), 12% RH, 5000kV to 50kV	2	msec	

Shielding Effectiveness		
10GHz, 1/8" thickness	61	dB
1GHz, 1/8" thickness	40	dB
5GHz, 1/8" thickness	55	dB
NOTE		
1.	Type I, 5.1 mm/min	

Recommended distributors for this material

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