Stat-Tech™ ST3200-0005 ES RS

Polycarbonate

Key Characteristics

Product Description		
Stat-Tech™ Electrically Conductive Compounds are specifically engineered to provide anti-static, ESD, conductive, or EMI/RFI shielding performance. These compounds combine the performance of select engineering resins with reinforcing additives and are used for applications where static discharge/dissipation, electrical conductivity or shielding is required.		
General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Appearance	• Black	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.24	1.24	ASTM D792
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2]	16000 psi	110 MPa	ASTM D638
Tensile Elongation [2] (Break)	2.5 %	2.5 %	ASTM D638
Flexural Modulus [3]	1.13E+6 psi	7810 MPa	ASTM D790
Flexural Strength [3]	26000 psi	179 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	1.9 ft·lb/in	100 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	275 °F	135 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+2 to 1.0E+5 ohms	1.0E+2 to 1.0E+5 ohms	ASTM D257

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.020 %	0.020 %
Rear Temperature	480 to 570 °F	249 to 299 °C
Middle Temperature	520 to 590 °F	271 to 310 °C
Front Temperature	530 to 610 °F	277 to 321 °C
Nozzle Temperature	530 to 600 °F	277 to 316 °C
Mold Temperature	160 to 240 °F	71.1 to 116 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] 0.20 in/min (5.0 mm/min)

[3] 0.051 in/min (1.3 mm/min)

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