Stat-Tech™ ST0200-5011 EC black

Thermoplastic Elastomer

Key Characteristics

Product Description
Stat-Tech™ is an electrically conductive formulation engineered to protect critical electronics from electrostatic discharge (ESD) and electromagnetic and radio frequency interference (EMI/RFI). These formulations combine selected engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber, to provide the precise level of electrical conductivity required for your application. Injection moldable Stat-Tech material can replace aluminum, or the costly processes associated with conductive painting or vacuum metallization, while achieving comparable performance

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• Electrically Conductive	• High Elongation	
Uses	• Appliance Components • Automotive Applications	• Business Equipment • Consumer Applications	• Industrial Applications • Printer Parts
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.09	1.09	DIN 53479
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress			
Across Flow : Break [2]	1380 psi	9.50 MPa	ISO 527-2
Flow : Break [3, 4]	943 psi	6.50 MPa	DIN 53404
Tensile Elongation			
Flow : Break, Injection Molded	420 to 450 %	420 to 450 %	ASTM D638
Across Flow : Break, 73°F (23°C), 7.87 in (200 mm)	700 to 730 %	700 to 730 %	DIN 53504
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness			ISO 48-4
Shore A, 10 sec	66 to 75	66 to 75	
Shore D, 10 sec	15 to 22	15 to 22	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	10 to 1.0E+3 ohms	10 to 1.0E+3 ohms	IEC 60093
Volume Resistivity	10 to 1.0E+3 ohms·cm	10 to 1.0E+3 ohms·cm	IEC 60093
Additional Information			
Moisture:0.06%			
Cured Properties	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Compression Set (158°F (70°C), 22.0 hr)	40 %	40 %	DIN ISO 815-B

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	158 °F	70 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	356 to 392 °F	180 to 200 °C

Notes

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

[2] Tensile Strength @ Break (23 °C, Standard, 200 mm/min)

[3] 7.9 in/min (200 mm/min)

[4] Tensile Strength @ Break (23 °C, Standard, 200 mm/min, Parallel)

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