Stat-Tech™ ST5200-5004 ESD BLACK

Polypropylene

Key Characteristics

Product Description		
Permanently conductive polypropylene, UV stabilized		
General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East	• Europe
Features	• Conductive	
Appearance	• Black	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.00 g/cm³	1.00 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	247000 psi	1700 MPa	ISO 527-2
Tensile Stress (Break)	4350 psi	30.0 MPa	ISO 527-2
Tensile Strain (Break)	5.0 %	5.0 %	ISO 527-2
Flexural Modulus	218000 psi	1500 MPa	ISO 178
Flexural Stress	5800 psi	40.0 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength	3.3 ft·lb/in²	7.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break	ISO 179
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+3 to 1.0E+5 ohms	1.0E+3 to 1.0E+5 ohms	IEC 60093

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80 to 85 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	392 to 464 °F	200 to 240 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Notes		

Notes

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