Stat-Tech™ ST4200-5002 EC Black

Acetal (POM) Copolymer

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East	• Europe
Features	• Electrically Conductive	
Uses	• Automotive Applications • Consumer Applications	• Electrical/Electronic Applications • Industrial Applications
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.40 to 1.44 g/cm³	1.40 to 1.44 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	392000 psi	2700 MPa	ISO 527
Tensile Stress	7540 psi	52.0 MPa	ISO 527-2
Tensile Strain (Break)	8.7 %	8.7 %	ISO 527-2
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-40°F (-40°C)	2.4 ft·lb/in²	5.0 kJ/m²	
-31°F (-35°C)	2.5 ft·lb/in²	5.2 kJ/m²	
73°F (23°C)	2.9 ft·lb/in²	6.1 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°F (-40°C)	28 ft·lb/in²	58 kJ/m²	
-31°F (-35°C)	32 ft·lb/in²	68 kJ/m²	
73°F (23°C)	40 ft·lb/in²	85 kJ/m²	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	< 1.0E+4 ohms	< 1.0E+4 ohms	IEC 60093

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	374 to 410 °F	190 to 210 °C
Mold Temperature	167 to 212 °F	75 to 100 °C

Notes

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

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