

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 Industrial Applications 	
Forms	Pellets	
Processing Method	Injection Molding	

Technical Properties¹

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.40 to 1.44 g/cm ³	1.40 to 1.44 g/cm ³	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/in ²	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/in ²	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

Typical Value (English)	Typical Value (SI)	
176 to 212 °F	80 to 100 °C	
4.0 hr	4.0 hr	
374 to 410 °F	190 to 210 °C	
167 to 212 °F	75 to 100 °C	
	176 to 212 °F 4.0 hr 374 to 410 °F	176 to 212 °F 80 to 100 °C 4.0 hr 4.0 hr 374 to 410 °F 190 to 210 °C

Notes

¹ Typical values are not to be construed as specifications.

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CONTACT INFORMATION

Americas United States - Avon Lake +1 440 930 1000 United States - McHenry +1 815 385 8500

Asia China - Guangzhou +86 20 8732 7260

China - Shenzhen +86 755 2969 2888 China - Suzhou +86 512 6823 24 38 China - Suzhou +86 512 6265 2600 Hong Kong -+852 2690 5332 Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849 Europe Germany - Gaggenau +49 7225 6802 0 Spain - Barbastro (Huesca) +34 974 310 314

Beyond Polymers. Better Business Solutions.[™] www.polyone.com

PolyOne Americas

PolyOne Asia

33587 Walker Road Avon Lake, Ohio 44012 United States +1 440 930 1000

+1 866 POLYONE

No. 88 Guoshoujing Road Z.J Hi-tech Park, Pudong Shanghai, 201203, China +86 21 5080 1188

PolyOne Europe 6 Giällewee +352 269 050 35

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