Stat-Tech™ ST0200-5007 EC Black

Thermoplastic Elastomer

Key Characteristics

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
Appearance	• Black		
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.03	1.03	DIN 53479
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2, 3] (73°F (23°C))	638 psi	4.40 MPa	DIN 53504
Tensile Stress [2, 4] (Break)	943 psi	6.50 MPa	DIN 53404
Tensile Elongation [5]			DIN 53504
Break, 73°F (23°C), 7.87 in (200 mm)	240 %	240 %	
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress			
Across Flow : 100% Strain	580 to 870 psi	4.00 to 6.00 MPa	ISO 37
Flow : 100% Strain	290 to 580 psi	2.00 to 4.00 MPa	DIN 53504
Tensile Elongation			
Across Flow : Break	550 to 650 %	550 to 650 %	DIN 53404
Flow : Break	300 to 400 %	300 to 400 %	DIN 53504
Compression Set			ISO 815
158°F (70°C), 22 hr [6]	55 %	55 %	
212°F (100°C), 22 hr [7]	78 %	78 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness			ISO 48-4
Shore A, 10 sec	49 to 52	49 to 52	
Shore D, 10 sec	6 to 11	6 to 11	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+2 to 1.0E+4 ohms	1.0E+2 to 1.0E+4 ohms	IEC 60093
Volume Resistivity	1.0E+2 to 1.0E+4 ohms·cm	1.0E+2 to 1.0E+4 ohms·cm	IEC 60093
Cured Properties	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Thermal Conductivity [8]	2.3 Btu·in/hr/ft²/°F	0.34 W/m/K	Internal Method

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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] 7.9 in/min (200 mm/min)

[3] Tensile Modulus, 100% [23 °C, 200 mm/min, Standard, Parallel]

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

[5] Tensile Elongation @ Break [23 °C, 200 mm/min, Standard, Parallel]

[6] Compression Set [22 hrs, 70 °C, 25 %]

[7] Compression Set [22 hrs, 100 °C, 25 %]

[8] TCi- Through plane method
C-Therm equipment

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