



Stat-Tech™ ST5400-5003 X3 Black

High Density Polyethylene

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Features	• Conductive		
Appearance	• Black		
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.03 g/cm ³	1.03 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0 to 12 g/10 min	8.0 to 12 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	11 to 15 cm ³ /10min	11 to 15 cm ³ /10min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	154000 psi	1070 MPa	ISO 527-2
Tensile Stress	3340 psi	23.0 MPa	ISO 527-2
Tensile Strain (Break)	3.0 to 7.0 %	3.0 to 7.0 %	ISO 527-2
Flexural Modulus	145000 psi	1000 MPa	ISO 178
Flexural Stress	3480 psi	24.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	0.95 ft·lb/in ²	2.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	19 ft·lb/in ²	40 kJ/m ²	ISO 179
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	< 1.0E+3 ohms	< 1.0E+3 ohms	IEC 60093

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	338 to 392 °F	170 to 200 °C
Mold Temperature	104 °F	40 °C

Notes

¹ Typical values are not to be construed as specifications.

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