



Stat-Tech™ SZ3223703

Polycarbonate

Key Characteristics

Product Description	
Carbon black filled, electrically conductive polycarbonate Compounds	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Appearance	• Black
Processing Method	• Extrusion • Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	3.0 to 8.0 g/10 min	3.0 to 8.0 g/10 min	ASTM D1238
Molding Shrinkage	0.20 to 0.40 %	0.20 to 0.40 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength	9430 psi	65.0 MPa	ASTM D638
Tensile Elongation (Break)	20 %	20 %	ASTM D638
Flexural Modulus	392000 psi	2700 MPa	ASTM D790
Flexural Strength	14500 psi	100 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact (Injection Molded)	4.3 ft-lb/in	230 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	266 °F	130 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity ²	10000 to 1.0E+6 ohms/sq	10000 to 1.0E+6 ohms/sq	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	230 to 266 °F	110 to 130 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	536 to 590 °F	280 to 310 °C
Mold Temperature	176 to 248 °F	80 to 120 °C

Injection Notes
Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

Extrusion	Typical Value (English)	Typical Value (SI)
Drying Temperature	230 to 266 °F	110 to 130 °C
Melt Temperature	446 to 536 °F	230 to 280 °C

Notes

¹ Typical values are not to be construed as specifications.

² Extruded films



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