



# Stat-Tech™ ST3200-8718 ESD BLACK

## Polycarbonate

### Key Characteristics

#### Product Description

Carbon Fiber Reinforced and PTFE Lubricated Polycarbonate Compounds

#### General

Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Features	• Conductive • High Stiffness • Good Dimensional Stability • High Strength • Lubricated
Appearance	• Black
Processing Method	• Injection Molding

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.27	1.27	ASTM D792
Molding Shrinkage	0.25 to 0.50 %	0.25 to 0.50 %	Internal Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.09E+6 psi	7500 MPa	ASTM D638
Tensile Strength	13800 psi	95.0 MPa	ASTM D638
Flexural Modulus	899000 psi	6200 MPa	ASTM D790
Flexural Strength	19600 psi	135 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact (Injection Molded)	1.8 ft-lb/in	95 J/m	ASTM D256A
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+5 to 1.0E+9 ohms	1.0E+5 to 1.0E+9 ohms	ASTM D257

### 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

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.