



Stat-Tech™ ST3200-0005 ES RS

Polycarbonate

Key Characteristics

| Product Description | |
|--|---|
| Stat-Tech™ Compound combines PC with conductive additives. | |
| General | |
| Material Status | • Commercial: Active |
| Regional Availability | • Africa & Middle East • Europe • Asia Pacific • North America |
| Features | • Conductive |
| Appearance | • Black |
| Processing Method | • Injection Molding |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-----------------------------|-----------------------------|-------------|
| Density / Specific Gravity | 1.24 | 1.24 | ASTM D792 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ² | 16000 psi | 110 MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 2.5 % | 2.5 % | ASTM D638 |
| Flexural Modulus ³ | 1.13E+6 psi | 7810 MPa | ASTM D790 |
| Flexural Strength ³ | 26000 psi | 179 MPa | ASTM D790 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm), Injection Molded | 1.9 ft·lb/in | 100 J/m | ASTM D256A |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed | 275 °F | 135 °C | ASTM D648 |
| Electrical | Typical Value (English) | Typical Value (SI) | Test Method |
| Surface Resistivity (0.125 in (3.18 mm)) | 1.0E+2 to 1.0E+5 ohms | 1.0E+2 to 1.0E+5 ohms | ASTM D257 |
| Volume Resistivity (0.125 in (3.18 mm)) | 1.0E+2 to 1.0E+5 ohms·cm | 1.0E+2 to 1.0E+5 ohms·cm | ASTM D257 |

Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature | 250 °F | 121 °C |
| Drying Time | 3.0 to 4.0 hr | 3.0 to 4.0 hr |
| Suggested Max Moisture | 0.020 % | 0.020 % |
| Rear Temperature | 480 to 570 °F | 249 to 299 °C |
| Middle Temperature | 520 to 590 °F | 271 to 310 °C |
| Front Temperature | 530 to 610 °F | 277 to 321 °C |
| Nozzle Temperature | 530 to 600 °F | 277 to 316 °C |
| Mold Temperature | 160 to 240 °F | 71 to 116 °C |

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)



Beyond Polymers.

Better Business Solutions. SM