

RTP ESD C 2580

Polycarbonate + ABS

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.
ESD 2580 Series materials are polycarbonate/ABS alloy with carbon fiber added for electrical conductivity. These materials have excellent static dissipation characteristics, are non-sloughing and are available in a wide range of colors. ESD A 2580 is st

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| Filler / Reinforcement | Carbon fiber reinforced material | | |
| Features | Conductivity | | |
| | Electrostatic discharge protection | | |
| | Antistatic property | | |
| Agency Ratings | MIL B-81705C | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Available colors | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.19 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.15 - 0.25 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.10 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 7580 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 110 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Modulus | 6890 | MPa | ASTM D790 |
| Flexural Strength (Yield) | 159 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 110 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 530 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 129 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+6 | ohms | ASTM D257 |

| | | | |
|---|---------------|---------|-------------|
| Volume Resistivity | 1.0E+3 | ohms·cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.59 mm, Values per RTP Company testing.) | HB | | UL 94 |

Additional Information

Molding Shrinkage, Linear-Flow, ASTM D955, 3.175mm: 1.5-2.5mm/mStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 secondsVolume Resistivity, ASTM D257: <10E3 ohm-cmSurface Resistivity, ASTM D257: <10E6 ohm/sq

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 232 - 288 | °C |
| Middle Temperature | 232 - 288 | °C |
| Front Temperature | 232 - 288 | °C |
| Mold Temperature | 71.1 - 98.9 | °C |
| Injection Pressure | 68.9 - 103 | MPa |

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