

Stat-Tech™ ST3200-0020 NHFR Black

Polycarbonate
PolyOne Corporation

Message:

Stat-Tech™ Electrically Conductive Compounds are specifically engineered to provide anti-static, ESD and RFI/EMI shielding performance for critical electronic equipment applications. These compounds combine the performance of select engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber for low to high levels of conductivity depending upon application requirements.

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| UL YellowCard | E76261-101455011 | | |
| Features | Conductivity | | |
| | Electromagnetic shielding (EMI) | | |
| | Flame retardancy | | |
| Uses | Computer components | | |
| | Electrical/Electronic Applications | | |
| | Electrical housing | | |
| | Aerospace applications | | |
| | Connector | | |
| | Shell | | |
| RoHS Compliance | RoHS compliance | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.35 | g/cm ³ | ASTM D792 |
| Molding Shrinkage | | | ASTM D955 |
| Flow | 0.30 - 0.80 | % | ASTM D955 |
| Transverse flow | 0.70 - 1.3 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 117 | MPa | ASTM D638 |
| Tensile Elongation ¹ (Break) | 1.5 | % | ASTM D638 |
| Flexural Modulus | 8270 | MPa | ASTM D790 |
| Flexural Strength | 152 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm, Injection Molded) | 37 | J/m | ASTM D256A |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+2 - 1.0E+4 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+2 - 1.0E+4 | ohms · cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |

| | | |
|--------------|-----|-----------------|
| Flame Rating | | Internal method |
| 1.6 mm | V-0 | Internal method |
| 3.2 mm | V-0 | Internal method |

NOTE

1. Type 1, 5.1 mm/min

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