

# RTP EMI 1360.7

Polyphenylene Sulfide

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.

| General Information  |  |                   |             |
|--|--|-------------------|-------------|
| Filler / Reinforcement   | Stainless steel fiber, 7.0% filler by weight |                   |             |
| Features   | Electromagnetic shielding (EMI)              |                   |             |
|  | Electrostatic discharge protection           |                   |             |
|  | Radio frequency shielding (RFI)              |                   |             |
| Agency Ratings   | MIL B-81705C                                 |                   |             |
| RoHS Compliance  | Contact manufacturer                         |                   |             |
| Appearance   | Black  |                   |             |
|  | Natural color                                |                   |             |
| Forms  | Particle                                     |                   |             |
| Physical   | Nominal Value                                | Unit              | Test Method |
| Specific Gravity   | 1.41   | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)   | 1.0 - 1.5                                    | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)   | 0.020  | %                 | ASTM D570   |
| Mechanical   | Nominal Value                                | Unit              | Test Method |
| Tensile Modulus  | 3790   | MPa               | ASTM D638   |
| Tensile Strength   | 65.5   | MPa               | ASTM D638   |
| Tensile Elongation (Break)   | 1.5  | %                 | ASTM D638   |
| Flexural Modulus   | 4000   | MPa               | ASTM D790   |
| Flexural Strength  | 103  | MPa               | ASTM D790   |
| Impact   | Nominal Value                                | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)  | 27   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)  | 210  | J/m               | ASTM D4812  |
| Electrical   | Nominal Value                                | Unit              | Test Method |
| Surface Resistivity  | 1.0E+5                                       | ohms              | ASTM D257   |
| Volume Resistivity   | 10   | ohms · cm         | ASTM D257   |
| Additional Information   |  |                   |             |
| Tensile Elongation, ASTM D-638: 1-2%Volume Resistivity, ASTM D-257: <1E1 ohm-cmSurface Resistivity, ASTM D-257: <1E5 ohmStatic Decay, Mil B-81705C: <2.0 seconds |  |                   |             |
| Injection  | Nominal Value                                | Unit              |             |
| Rear Temperature   | 288 - 343                                    | °C                |             |

|                    |           |     |
|--------------------|-----------|-----|
| Middle Temperature | 288 - 343 | °C  |
| Front Temperature  | 288 - 343 | °C  |
| Mold Temperature   | 135 - 177 | °C  |
| Injection Pressure | 103 - 138 | MPa |

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