

# RTP ESD A 1080

Polybutylene Terephthalate

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            | Nickel plated carbon fiber         |                   |             |
| Features                          | 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                  | 1.34                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow          | 0.20 - 0.50                        | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)    | 0.10                               | %                 | ASTM D570   |
| Mechanical                        | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                   | 6890                               | MPa               | ASTM D638   |
| Tensile Strength                  |                                    |                   | ASTM D638   |
| Yield                             | 89.6                               | MPa               | ASTM D638   |
| --                                | 89.6                               | MPa               | ASTM D638   |
| Tensile Elongation (Break)        | 2.0                                | %                 | ASTM D638   |
| Flexural Modulus                  | 5860                               | MPa               | ASTM D790   |
| Flexural Strength                 |                                    |                   | ASTM D790   |
| --                                | 138                                | MPa               | ASTM D790   |
| Yield                             | 138                                | MPa               | ASTM D790   |
| Impact                            | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)     | 53                                 | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)   | 430                                | J/m               | ASTM D4812  |
| Thermal                           | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load |                                    |                   | ASTM D648   |
| 0.45 MPa, not annealed            | 182                                | °C                | ASTM D648   |

|                                    |               |          |             |
|------------------------------------|---------------|----------|-------------|
| 1.8 MPa, not annealed              | 171           | °C       | ASTM D648   |
| CLTE - Flow                        | 4.9E-5        | cm/cm/°C | ASTM D696   |
| 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, RTP Tested) | HB            |          | UL 94       |

#### Additional Information

Tensile Elongation, ASTM D638: 2-5%Volume Resistivity, ASTM D257: 10E3-10E9 ohm-cmSurface Resistivity, ASTM D257: 10E6-10E12 ohm/sqStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 seconds

|                    |               |      |
|--------------------|---------------|------|
| Injection          | Nominal Value | Unit |
| Rear Temperature   | 232 - 271     | °C   |
| Middle Temperature | 232 - 271     | °C   |
| Front Temperature  | 232 - 271     | °C   |
| Mold Temperature   | 37.8 - 121    | °C   |
| Injection Pressure | 68.9 - 103    | MPa  |

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#### Recommended distributors for this material

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