

# RTP ESD 1081

Polybutylene Terephthalate

RTP Company

Message:

Carbon Fiber - ESD Protection

| General Information             |                                                        |                   |             |
|---------------------------------|--------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement          | Carbon fiber reinforced material, 10% filler by weight |                   |             |
| Features                        | Electrostatic discharge protection                     |                   |             |
| RoHS Compliance                 | Contact manufacturer                                   |                   |             |
| Processing Method               | Injection molding                                      |                   |             |
| Physical                        | Nominal Value                                          | Unit              | Test Method |
| Specific Gravity                | 1.33                                                   | g/cm <sup>3</sup> | ASTM D792   |
| Moisture Content                | 0.030                                                  | %                 |             |
| Mechanical                      | Nominal Value                                          | Unit              | Test Method |
| Tensile Modulus                 | 6210                                                   | MPa               | ASTM D638   |
| Tensile Strength                | 82.7                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)      | 2.0 - 4.0                                              | %                 | ASTM D638   |
| Flexural Modulus                | 5520                                                   | MPa               | ASTM D790   |
| Flexural Strength               | 128                                                    | MPa               | ASTM D790   |
| Impact                          | Nominal Value                                          | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)   | 32                                                     | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm) | 430                                                    | J/m               | ASTM D4812  |
| Electrical                      | Nominal Value                                          | Unit              | Test Method |
| Surface Resistivity             | < 1.0E+9                                               | ohms              | ASTM D257   |
| Volume Resistivity              | < 1.0E+5                                               | ohms · cm         | ASTM D257   |
| Injection                       | Nominal Value                                          | Unit              |             |
| Drying Temperature              | 121                                                    | °C                |             |
| Drying Time                     | 4.0                                                    | hr                |             |
| Dew Point                       | -28.9                                                  | °C                |             |
| Processing (Melt) Temp          | 238 - 271                                              | °C                |             |
| Mold Temperature                | 79.4 - 107                                             | °C                |             |
| Injection Pressure              | 68.9 - 103                                             | MPa               |             |
| Injection instructions          |                                                        |                   |             |

Desiccant Type Dryer Required.

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