

# RTP 2299 X 126107 A

Polyetheretherketone  
RTP Company

Message:  
ESD Protection - Carbon Fiber

| General Information             |                                    |                   |             |
|---------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement          | Carbon fiber reinforced material   |                   |             |
| Features                        | Electrostatic discharge protection |                   |             |
| RoHS Compliance                 | Contact manufacturer               |                   |             |
| Processing Method               | Injection molding                  |                   |             |
| Physical                        | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                | 1.61                               | g/cm <sup>3</sup> | ASTM D792   |
| Moisture Content                | 0.10                               | %                 |             |
| Mechanical                      | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                 | 12400                              | MPa               | ASTM D638   |
| Tensile Strength                | 96.5                               | MPa               | ASTM D638   |
| Tensile Elongation (Yield)      | 1.5 - 2.5                          | %                 | ASTM D638   |
| Flexural Modulus                | 10300                              | MPa               | ASTM D790   |
| Flexural Strength               | 145                                | MPa               | ASTM D790   |
| Impact                          | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)   | 37                                 | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm) | 270                                | J/m               | ASTM D4812  |
| Electrical                      | Nominal Value                      | Unit              | Test Method |
| Surface Resistivity             | 1.0E+5 - 1.0E+9                    | ohms              | ASTM D257   |
| Volume Resistivity              | 10 - 1.0E+4                        | ohms · cm         | ASTM D257   |
| Injection                       | Nominal Value                      | Unit              |             |
| Drying Temperature              | 149                                | °C                |             |
| Drying Time                     | 3.0                                | hr                |             |
| Dew Point                       | -29                                | °C                |             |
| Processing (Melt) Temp          | 349 - 399                          | °C                |             |
| Mold Temperature                | 163 - 218                          | °C                |             |
| Injection Pressure              | 82.7 - 124                         | MPa               |             |
| Injection instructions          |                                    |                   |             |

Desiccant Type Dryer Required.

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