

# RTP 2299 X 115088 D

Polyetheretherketone  
RTP Company

Message:  
Glass Fiber - Carbon Nanotube - ESD Protection

| General Information                |                                    |                   |                  |
|------------------------------------|------------------------------------|-------------------|------------------|
| Filler / Reinforcement             | Glass fiber reinforced material    |                   |                  |
|                                    | Carbon nano filler                 |                   |                  |
| Features                           | Electrostatic discharge protection |                   |                  |
| RoHS Compliance                    | Contact manufacturer               |                   |                  |
| Processing Method                  | Injection molding                  |                   |                  |
| Physical                           | Nominal Value                      | Unit              | Test Method      |
| Specific Gravity                   | 1.49                               | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm) | 0.30 - 0.40                        | %                 | ASTM D955        |
| Moisture Content                   | 0.10                               | %                 |                  |
| Static Decay                       |                                    | sec               | FTMS 101C 4046.1 |
| Primary Additive                   | 25                                 | %                 |                  |
| Mechanical                         | Nominal Value                      | Unit              | Test Method      |
| Tensile Modulus                    | 10700                              | MPa               | ASTM D638        |
| Tensile Strength                   | 179                                | MPa               | ASTM D638        |
| Tensile Elongation (Yield)         | 3.0                                | %                 | ASTM D638        |
| Flexural Modulus                   | 9650                               | MPa               | ASTM D790        |
| Flexural Strength                  | 283                                | MPa               | ASTM D790        |
| Impact                             | Nominal Value                      | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)      | 64                                 | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)    | 750                                | J/m               | ASTM D4812       |
| Electrical                         | Nominal Value                      | Unit              | Test Method      |
| Surface Resistivity                |                                    |                   |                  |
| --                                 | 1.0E+4 - 1.0E+6                    | ohms              | ASTM D257        |
| --                                 | 1.0E+3 - 1.0E+5                    | ohms              | ESD STM11.11     |
| Volume Resistivity                 | 1.0E+2 - 1.0E+3                    | ohms · cm         | ASTM D257        |
| Injection                          | Nominal Value                      | Unit              |                  |
| Drying Temperature                 | 149                                | °C                |                  |
| Drying Time                        | 3.0                                | hr                |                  |
| Dew Point                          | -28.9                              | °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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## Recommended distributors for this material

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