

# RTP ESD C 202 A

Polyamide 6

RTP Company

Message:

Glass Fiber - ESD Protection - Electrically Conductive

| General Information                |                                                       |                   |                  |
|------------------------------------|-------------------------------------------------------|-------------------|------------------|
| Filler / Reinforcement             | Glass fiber reinforced material, 15% filler by weight |                   |                  |
| Features                           | Conductivity                                          |                   |                  |
|                                    | Electrostatic discharge protection                    |                   |                  |
| RoHS Compliance                    | Contact manufacturer                                  |                   |                  |
| Processing Method                  | Injection molding                                     |                   |                  |
| Physical                           | Nominal Value                                         | Unit              | Test Method      |
| Specific Gravity                   | 1.28                                                  | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm) | 0.50 - 0.80                                           | %                 | ASTM D955        |
| Moisture Content                   | 0.20                                                  | %                 |                  |
| Static Decay <sup>1</sup>          |                                                       | sec               | FTMS 101C 4046.1 |
| Primary Additive                   | 15                                                    | %                 |                  |
| Mechanical                         | Nominal Value                                         | Unit              | Test Method      |
| Tensile Modulus                    | 5170                                                  | MPa               | ASTM D638        |
| Tensile Strength                   | 82.7                                                  | MPa               | ASTM D638        |
| Tensile Elongation (Yield)         | 2.0 - 4.0                                             | %                 | ASTM D638        |
| Flexural Modulus                   | 4830                                                  | MPa               | ASTM D790        |
| Flexural Strength                  | 138                                                   | MPa               | ASTM D790        |
| Impact                             | Nominal Value                                         | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)      | 110                                                   | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)    | 530                                                   | J/m               | ASTM D4812       |
| Electrical                         | Nominal Value                                         | Unit              | Test Method      |
| Surface Resistivity                |                                                       |                   |                  |
| --                                 | < 1.0E+6                                              | ohms              | ASTM D257        |
| --                                 | < 1.0E+5                                              | ohms              | ESD STM11.11     |
| Volume Resistivity                 | < 1.0E+3                                              | ohms · cm         | ASTM D257        |
| Injection                          | Nominal Value                                         | Unit              |                  |
| Drying Temperature                 | 82.2                                                  | °C                |                  |
| Drying Time                        | 2.0                                                   | hr                |                  |
| Dew Point                          | -17.8                                                 | °C                |                  |
| Processing (Melt) Temp             | 243 - 279                                             | °C                |                  |
| Mold Temperature                   | 54.4 - 93.3                                           | °C                |                  |
| Injection Pressure                 | 68.9 - 103                                            | MPa               |                  |

#### Injection instructions

Desiccant Type Dryer Required.

#### NOTE

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| 1. | MIL-PRF-81705D, 5kV to 50 V, 12% RH |
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