

# RTP ESD C 103

Polypropylene

RTP Company

Message:

Glass Fiber - ESD Protection - Electrically Conductive

| General Information                |                                  |                   |                  |
|------------------------------------|----------------------------------|-------------------|------------------|
| Filler / Reinforcement             | Glass Fiber,20% Filler by Weight |                   |                  |
| Features                           | Electrically Conductive          |                   |                  |
|                                    | ESD Protection                   |                   |                  |
| RoHS Compliance                    | Contact Manufacturer             |                   |                  |
| Processing Method                  | Injection Molding                |                   |                  |
| Physical                           | Nominal Value                    | Unit              | Test Method      |
| Specific Gravity                   | 1.14                             | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm) | 0.20 to 0.40                     | %                 | ASTM D955        |
| Mechanical                         | Nominal Value                    | Unit              | Test Method      |
| Tensile Modulus                    | 4480                             | MPa               | ASTM D638        |
| Tensile Strength                   | 33.1                             | MPa               | ASTM D638        |
| Tensile Elongation (Yield)         | 2.0 to 4.0                       | %                 | ASTM D638        |
| Flexural Modulus                   | 3310                             | MPa               | ASTM D790        |
| Flexural Strength                  | 51.7                             | MPa               | ASTM D790        |
| Impact                             | Nominal Value                    | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)      | 80                               | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)    | 190                              | 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        |
| Static Decay <sup>1</sup>          | < 2.0                            | sec               | FTMS 101C 4046.1 |
| Primary Additive                   | 20                               | %                 |                  |
| Injection                          | Nominal Value                    | Unit              |                  |
| Drying Temperature                 | 79.4                             | °C                |                  |
| Drying Time                        | 2.0                              | hr                |                  |
| Processing (Melt) Temp             | 191 to 232                       | °C                |                  |
| Mold Temperature                   | 32.2 to 65.6                     | °C                |                  |
| Injection Pressure                 | 68.9 to 103                      | MPa               |                  |
| NOTE                               |                                  |                   |                  |

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