

# RTP ESD C 100 HF

Polypropylene  
RTP Company

Message:  
ESD Protection - Electrically Conductive - High MFR

| General Information                       |                         |                   |                  |
|-------------------------------------------|-------------------------|-------------------|------------------|
| Features                                  | Electrically Conductive |                   |                  |
|                                           | ESD Protection          |                   |                  |
|                                           | High Flow               |                   |                  |
| RoHS Compliance                           | Contact Manufacturer    |                   |                  |
| Processing Method                         | Injection Molding       |                   |                  |
| Physical                                  | Nominal Value           | Unit              | Test Method      |
| Specific Gravity                          | 1.00                    | g/cm <sup>3</sup> | ASTM D792        |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.0 to 10               | g/10 min          | ASTM D1238       |
| Molding Shrinkage - Flow (3.20 mm)        | 1.2 to 1.7              | %                 | ASTM D955        |
| Mechanical                                | Nominal Value           | Unit              | Test Method      |
| Tensile Modulus                           | 1380                    | MPa               | ASTM D638        |
| Tensile Strength                          | 23.4                    | MPa               | ASTM D638        |
| Tensile Elongation (Yield)                | 5.0 to 10               | %                 | ASTM D638        |
| Flexural Modulus                          | 1310                    | MPa               | ASTM D790        |
| Flexural Strength                         | 34.5                    | MPa               | ASTM D790        |
| Impact                                    | Nominal Value           | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)             | 430                     | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)           | No Break                |                   | 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 |
| 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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