

# RTP EMI 263

Polyamide 66

RTP Company

Message:

Stainless Steel Fiber - EMI/RFI/ESD Protection

| General Information                |                                             |                   |                  |
|------------------------------------|---------------------------------------------|-------------------|------------------|
| Filler / Reinforcement             | Stainless steel fiber, 20% filler by weight |                   |                  |
| Features                           | Electromagnetic shielding (EMI)             |                   |                  |
|                                    | Electrostatic discharge protection          |                   |                  |
|                                    | Radio frequency shielding (RFI)             |                   |                  |
| RoHS Compliance                    | Contact manufacturer                        |                   |                  |
| Processing Method                  | Injection molding                           |                   |                  |
| Physical                           | Nominal Value                               | Unit              | Test Method      |
| Specific Gravity                   | 1.30                                        | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm) | 1.0 - 1.4                                   | %                 | ASTM D955        |
| Moisture Content                   | 0.20                                        | %                 |                  |
| Static Decay <sup>1</sup>          |                                             | sec               | FTMS 101C 4046.1 |
| Primary Additive                   | 20                                          | %                 |                  |
| Mechanical                         | Nominal Value                               | Unit              | Test Method      |
| Tensile Modulus                    | 4830                                        | MPa               | ASTM D638        |
| Tensile Strength                   | 82.7                                        | MPa               | ASTM D638        |
| Tensile Elongation (Yield)         | 4.0 - 8.0                                   | %                 | ASTM D638        |
| Flexural Modulus                   | 3450                                        | MPa               | ASTM D790        |
| Flexural Strength                  | 124                                         | MPa               | ASTM D790        |
| Impact                             | Nominal Value                               | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)      | 43                                          | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)    | 640                                         | J/m               | ASTM D4812       |
| Electrical                         | Nominal Value                               | Unit              | Test Method      |
| Surface Resistivity                |                                             |                   |                  |
| --                                 | < 1.0E+4                                    | ohms              | ASTM D257        |
| --                                 | < 1.0E+3                                    | ohms              | ESD STM11.11     |
| Volume Resistivity                 | < 1.0                                       | ohms · cm         | ASTM D257        |
| Injection                          | Nominal Value                               | Unit              |                  |
| Drying Temperature                 | 79.4                                        | °C                |                  |
| Drying Time                        | 4.0                                         | hr                |                  |
| Processing (Melt) Temp             | 252 - 293                                   | °C                |                  |
| Mold Temperature                   | 79.4 - 98.9                                 | °C                |                  |
| Injection Pressure                 | 68.9 - 103                                  | MPa               |                  |

#### Injection instructions

Use a reverse barrel profile. Remove hopper magnets. Allow 4 - 5 shots to properly disperse the conductive fibers. The surface finish should have a silver streaking appearance, not clumps.Desiccant Type Dryer Required.

#### NOTE

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

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