

# RTP EMI 330 D FR

Polycarbonate  
RTP Company

Message:  
Stainless Steel Fiber - Electrically Conductive - EMI/RFI/ESD Protection - Flame Retardant

| General Information                |                                              |                   |                  |
|------------------------------------|----------------------------------------------|-------------------|------------------|
| UL YellowCard                      | E84658-251425                                |                   |                  |
| Filler / Reinforcement             | Stainless steel fiber, 7.5% filler by weight |                   |                  |
| Features                           | Conductivity                                 |                   |                  |
|                                    | 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                   | 1.35                                         | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm) | 0.60 - 0.70                                  | %                 | ASTM D955        |
| Moisture Content                   | 0.020                                        | %                 |                  |
| Static Decay <sup>1</sup>          |                                              | sec               | FTMS 101C 4046.1 |
| Primary Additive                   | 7.5                                          | %                 |                  |
| Mechanical                         | Nominal Value                                | Unit              | Test Method      |
| Tensile Modulus                    | 2900                                         | MPa               | ASTM D638        |
| Tensile Strength                   | 64.1                                         | MPa               | ASTM D638        |
| Tensile Elongation (Yield)         | 5.0 - 8.0                                    | %                 | ASTM D638        |
| Flexural Modulus                   | 2900                                         | MPa               | ASTM D790        |
| Flexural Strength                  | 64.1                                         | MPa               | ASTM D790        |
| Impact                             | Nominal Value                                | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)      | 69                                           | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)    | 960                                          | J/m               | ASTM D4812       |
| Electrical                         | Nominal Value                                | Unit              | Test Method      |
| Surface Resistivity                |                                              |                   |                  |
| --                                 | < 1.0E+5                                     | ohms              | ASTM D257        |
| --                                 | < 1.0E+4                                     | ohms              | ESD STM11.11     |
| Volume Resistivity                 | < 1.0E+2                                     | ohms · cm         | ASTM D257        |
| Flammability                       | Nominal Value                                | Unit              | Test Method      |
| Flame Rating (1.50 mm)             | V-0                                          |                   | UL 94            |
| Injection                          | Nominal Value                                | Unit              |                  |
| Drying Temperature                 | 121                                          | °C                |                  |

|                        |            |     |
|------------------------|------------|-----|
| Drying Time            | 4.0        | hr  |
| Dew Point              | -28.9      | °C  |
| Processing (Melt) Temp | 277 - 304  | °C  |
| Mold Temperature       | 71.1 - 121 | °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. Remove hopper magnets. Desiccant Type Dryer Required.

#### NOTE

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

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