

# RTP EMI 333 E BLACK

Polycarbonate  
RTP Company

Message:  
Stainless Steel Fiber - 20% Glass Fiber - Electrically Conductive - EMI/RFI Shielding - (Preliminary Data Sheet)

| General Information                                     |                                                       |                   |                  |
|---------------------------------------------------------|-------------------------------------------------------|-------------------|------------------|
| Filler / Reinforcement                                  | Glass fiber reinforced material, 20% filler by weight |                   |                  |
|                                                         | Stainless steel fiber, 10% filler by weight           |                   |                  |
| Features                                                | Conductivity                                          |                   |                  |
|                                                         | Electromagnetic shielding (EMI)                       |                   |                  |
|                                                         | Radio frequency shielding (RFI)                       |                   |                  |
| RoHS Compliance                                         | Contact manufacturer                                  |                   |                  |
| Processing Method                                       | Injection molding                                     |                   |                  |
| Physical                                                | Nominal Value                                         | Unit              | Test Method      |
| Specific Gravity                                        | 1.48                                                  | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm)                      | 0.20 - 0.40                                           | %                 | ASTM D955        |
| Moisture Content                                        | 0.020                                                 | %                 |                  |
| Static Decay                                            |                                                       | sec               | FTMS 101C 4046.1 |
| Primary Additive                                        | 10                                                    | %                 |                  |
| Mechanical                                              | Nominal Value                                         | Unit              | Test Method      |
| Tensile Modulus                                         | 5520                                                  | MPa               | ASTM D638        |
| Tensile Strength                                        | 96.5                                                  | MPa               | ASTM D638        |
| Tensile Elongation (Yield)                              | 3.0                                                   | %                 | ASTM D638        |
| Flexural Modulus                                        | 5520                                                  | MPa               | ASTM D790        |
| Flexural Strength                                       | 159                                                   | MPa               | ASTM D790        |
| Impact                                                  | Nominal Value                                         | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)                           | 130                                                   | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)                         | 640                                                   | J/m               | ASTM D4812       |
| Thermal                                                 | Nominal Value                                         | Unit              | Test Method      |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 138                                                   | °C                | ASTM D648        |
| Electrical                                              | Nominal Value                                         | Unit              | Test Method      |
| Surface Resistivity                                     |                                                       |                   |                  |
| --                                                      | < 1.0E+4                                              | ohms              | ESD STM11.11     |
| --                                                      | < 1.0E+5                                              | ohms              | ASTM D257        |
| Volume Resistivity                                      | < 1.0E+2                                              | ohms · cm         | ASTM D257        |
| Flammability                                            | Nominal Value                                         | Unit              | Test Method      |

|                                                           |               |      |    |       |
|-----------------------------------------------------------|---------------|------|----|-------|
| Flame Rating (1.5 mm, ** Values per RTP Company testing.) |               |      | HB | UL 94 |
| Injection                                                 | Nominal Value | Unit |    |       |
| Drying Temperature                                        | 121           | °C   |    |       |
| Drying Time                                               | 4.0           | hr   |    |       |
| Dew Point                                                 | -29           | °C   |    |       |
| Processing (Melt) Temp                                    | 277 - 304     | °C   |    |       |
| Mold Temperature                                          | 71 - 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.

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