

# RTP ESD 300 EM FR A

Polycarbonate  
RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'  
The data for this material has not been recently verified.  
Please contact RTP Company for current information prior to specifying this grade.

| General Information                                     |                                    |         |                  |
|---------------------------------------------------------|------------------------------------|---------|------------------|
| UL YellowCard                                           | E84658-100902342                   |         |                  |
| Additive                                                | Flame retardancy                   |         |                  |
| Features                                                | Electrostatic discharge protection |         |                  |
|                                                         | Static conduction                  |         |                  |
|                                                         | Good formability                   |         |                  |
|                                                         | Flame retardancy                   |         |                  |
| RoHS Compliance                                         | Contact manufacturer               |         |                  |
| Processing Method                                       | Injection molding                  |         |                  |
| Physical                                                | Nominal Value                      | Unit    | Test Method      |
| Specific Gravity                                        | 1.28                               | g/cm³   | ASTM D792        |
| Molding Shrinkage - Flow (3.18 mm)                      | 0.50 - 0.80                        | %       | ASTM D955        |
| Mechanical                                              | Nominal Value                      | Unit    | Test Method      |
| Tensile Modulus                                         | 2760                               | MPa     | ASTM D638        |
| Tensile Strength                                        | 64.1                               | MPa     | ASTM D638        |
| Tensile Elongation (Yield)                              | 8.0 - 12                           | %       | ASTM D638        |
| Flexural Modulus                                        | 2760                               | MPa     | ASTM D790        |
| Flexural Strength                                       | 107                                | MPa     | ASTM D790        |
| Impact                                                  | Nominal Value                      | Unit    | Test Method      |
| Notched Izod Impact (3.18 mm)                           | 43                                 | J/m     | ASTM D256        |
| Unnotched Izod Impact (3.18 mm)                         | 1500                               | J/m     | ASTM D4812       |
| Thermal                                                 | Nominal Value                      | Unit    | Test Method      |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 127                                | °C      | ASTM D648        |
| Electrical                                              | Nominal Value                      | Unit    | Test Method      |
| Surface Resistivity <sup>1</sup>                        | < 1.0E+7                           | ohms    | ASTM D257        |
| Volume Resistivity                                      | < 1.0E+4                           | ohms·cm | ASTM D257        |
| Static Decay                                            |                                    |         | FTMS 101C 4046.1 |
| Flammability                                            | Nominal Value                      | Unit    | Test Method      |
| Flame Rating <sup>2</sup> (1.50 mm)                     | V-0                                |         | ASTM D3801       |
| Injection                                               | Nominal Value                      | Unit    |                  |
| Drying Temperature - Desiccant Dryer                    | 121                                | °C      |                  |

|                               |            |     |
|-------------------------------|------------|-----|
| Drying Time - Desiccant Dryer | 4.0        | hr  |
| Dew Point - Desiccant Dryer   | -28.9      | °C  |
| Suggested Max Moisture        | 0.020      | %   |
| Processing (Melt) Temp        | 288 - 316  | °C  |
| Mold Temperature              | 82.2 - 121 | °C  |
| Injection Pressure            | 68.9 - 103 | MPa |

Injection instructions

Desiccant Type Dryer Required.

NOTE

- |    |                                 |
|----|---------------------------------|
| 1. | ESD STM11.11                    |
| 2. | Values per RTP Company testing. |

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