

# RTP ESD 3284

Ethylene Tetrafluoroethylene Copolymer

RTP Company

Message:

Carbon Fiber - Electrically Conductive

| General Information                                        |                                   |                   |                  |
|------------------------------------------------------------|-----------------------------------|-------------------|------------------|
| Filler / Reinforcement                                     | Carbon Fiber,25% Filler by Weight |                   |                  |
| Features                                                   | Electrically Conductive           |                   |                  |
| RoHS Compliance                                            | Contact Manufacturer              |                   |                  |
| Processing Method                                          | Injection Molding                 |                   |                  |
| Physical                                                   | Nominal Value                     | Unit              | Test Method      |
| Specific Gravity                                           | 1.72                              | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.050 to 0.25                     | %                 | ASTM D955        |
| Mechanical                                                 | Nominal Value                     | Unit              | Test Method      |
| Tensile Modulus                                            | 17200                             | MPa               | ASTM D638        |
| Tensile Strength                                           | 60.0                              | MPa               | ASTM D638        |
| Tensile Elongation (Yield)                                 | 1.0                               | %                 | ASTM D638        |
| Flexural Modulus                                           | 14500                             | MPa               | ASTM D790        |
| Flexural Strength                                          | 96.5                              | 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)                            | 270                               | J/m               | ASTM D4812       |
| Thermal                                                    | Nominal Value                     | Unit              | Test Method      |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | 210                               | °C                | ASTM D648        |
| Electrical                                                 | Nominal Value                     | Unit              | Test Method      |
| Surface Resistivity                                        |                                   |                   |                  |
| --                                                         | < 1.0E+4                          | ohms              | ASTM D257        |
| --                                                         | < 1.0E+3                          | ohms              | ESD STM11.11     |
| Volume Resistivity                                         | < 1.0E+2                          | ohms · cm         | ASTM D257        |
| Static Decay                                               | < 0.5                             | sec               | FTMS 101C 4046.1 |
| Primary Additive                                           | 25                                | %                 |                  |
| Flammability                                               | Nominal Value                     | Unit              | Test Method      |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | V-0                               |                   | UL 94            |
| Injection                                                  | Nominal Value                     | Unit              |                  |
| Drying Temperature                                         | 121                               | °C                |                  |
| Drying Time                                                | 2.0                               | hr                |                  |
| Processing (Melt) Temp                                     | 293 to 343                        | °C                |                  |
| Mold Temperature                                           | 65.6 to 149                       | °C                |                  |

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