

# RTP ESD 1385 HF

Polyphenylene Sulfide

RTP Company

Message:

Carbon Fiber - High Flow - Electrically Conductive

| General Information                                       |                                                        |                   |                  |
|-----------------------------------------------------------|--------------------------------------------------------|-------------------|------------------|
| Filler / Reinforcement                                    | Carbon fiber reinforced material, 30% filler by weight |                   |                  |
| Features                                                  | Conductivity                                           |                   |                  |
|                                                           | High liquidity                                         |                   |                  |
| RoHS Compliance                                           | Contact manufacturer                                   |                   |                  |
| Processing Method                                         | Injection molding                                      |                   |                  |
| Physical                                                  | Nominal Value                                          | Unit              | Test Method      |
| Specific Gravity                                          | 1.45                                                   | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm)                        | 0.020 - 0.10                                           | %                 | ASTM D955        |
| Moisture Content                                          | 0.040                                                  | %                 |                  |
| Static Decay                                              |                                                        | sec               | FTMS 101C 4046.1 |
| Primary Additive                                          | 30                                                     | %                 |                  |
| Mechanical                                                | Nominal Value                                          | Unit              | Test Method      |
| Tensile Modulus                                           | 22100                                                  | MPa               | ASTM D638        |
| Tensile Strength                                          | 207                                                    | MPa               | ASTM D638        |
| Tensile Elongation (Yield)                                | 1.3                                                    | %                 | ASTM D638        |
| Flexural Modulus                                          | 21400                                                  | MPa               | ASTM D790        |
| Flexural Strength                                         | 290                                                    | MPa               | ASTM D790        |
| Impact                                                    | Nominal Value                                          | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)                             | 53                                                     | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)                           | 430                                                    | J/m               | ASTM D4812       |
| Thermal                                                   | Nominal Value                                          | Unit              | Test Method      |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)   | 268                                                    | °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                                        | < 10                                                   | ohms · cm         | ASTM D257        |
| Flammability                                              | Nominal Value                                          | Unit              | Test Method      |
| Flame Rating (1.5 mm, ** Values per RTP Company testing.) | V-0                                                    |                   | UL 94            |
| Injection                                                 | Nominal Value                                          | Unit              |                  |
| Drying Temperature                                        | 149                                                    | °C                |                  |

|                        |            |     |
|------------------------|------------|-----|
| Drying Time            | 6.0        | hr  |
| Processing (Melt) Temp | 307 - 329  | °C  |
| Mold Temperature       | 135 - 177  | °C  |
| Injection Pressure     | 68.9 - 103 | MPa |

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