

# RTP ESD C 280 HS

Polyamide 66

RTP Company

Message:

Carbon Fiber - ESD Protection - Electrically Conductive - Heat Stabilized

| General Information                                       |                                    |                   |                  |
|-----------------------------------------------------------|------------------------------------|-------------------|------------------|
| Filler / Reinforcement                                    | Carbon fiber reinforced material   |                   |                  |
| Additive                                                  | heat stabilizer                    |                   |                  |
| Features                                                  | Conductivity                       |                   |                  |
|                                                           | Electrostatic discharge protection |                   |                  |
|                                                           | Thermal Stability                  |                   |                  |
| RoHS Compliance                                           | Contact manufacturer               |                   |                  |
| Processing Method                                         | Injection molding                  |                   |                  |
| Physical                                                  | Nominal Value                      | Unit              | Test Method      |
| Specific Gravity                                          | 1.20                               | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm)                        | 0.15 - 0.35                        | %                 | ASTM D955        |
| Moisture Content                                          | 0.20                               | %                 |                  |
| Static Decay                                              |                                    | sec               | FTMS 101C 4046.1 |
| Mechanical                                                | Nominal Value                      | Unit              | Test Method      |
| Tensile Modulus                                           | 10300                              | MPa               | ASTM D638        |
| Tensile Strength                                          | 172                                | MPa               | ASTM D638        |
| Tensile Elongation (Yield)                                | 2.0 - 4.0                          | %                 | ASTM D638        |
| Flexural Modulus                                          | 8960                               | MPa               | ASTM D790        |
| Flexural Strength                                         | 241                                | 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)   | 249                                | °C                | ASTM D648        |
| Electrical                                                | Nominal Value                      | Unit              | Test Method      |
| Surface Resistivity                                       |                                    |                   |                  |
| --                                                        | < 1.0E+5                           | ohms              | ESD STM11.11     |
| --                                                        | < 1.0E+6                           | ohms              | ASTM D257        |
| Volume Resistivity                                        | < 1.0E+3                           | 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     | 79         | °C  |
| Drying Time            | 4.0        | hr  |
| Dew Point              | -18        | °C  |
| Processing (Melt) Temp | 277 - 299  | °C  |
| Mold Temperature       | 66 - 107   | °C  |
| Injection Pressure     | 68.9 - 124 | MPa |

#### Injection instructions

Desiccant Type Dryer Required.

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

