

# RTP 284

Polyamide 66

RTP Company

Message:

Carbon Fiber - Electrically Conductive

| General Information                                        |                                                        |                   |                  |
|------------------------------------------------------------|--------------------------------------------------------|-------------------|------------------|
| Filler / Reinforcement                                     | Carbon fiber reinforced material, 25% filler by weight |                   |                  |
| Features                                                   | Conductivity                                           |                   |                  |
| RoHS Compliance                                            | Contact manufacturer                                   |                   |                  |
| Processing Method                                          | Injection molding                                      |                   |                  |
| Physical                                                   | Nominal Value                                          | Unit              | Test Method      |
| Specific Gravity                                           | 1.25                                                   | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.050 - 0.20                                           | %                 | ASTM D955        |
| Moisture Content                                           | 0.20                                                   | %                 |                  |
| Static Decay                                               |                                                        | sec               | FTMS 101C 4046.1 |
| Primary Additive                                           | 25                                                     | %                 |                  |
| Mechanical                                                 | Nominal Value                                          | Unit              | Test Method      |
| Tensile Modulus                                            | 19300                                                  | MPa               | ASTM D638        |
| Tensile Strength                                           | 224                                                    | MPa               | ASTM D638        |
| Tensile Elongation (Yield)                                 | 2.0 - 3.0                                              | %                 | ASTM D638        |
| Flexural Modulus                                           | 15200                                                  | MPa               | ASTM D790        |
| Flexural Strength                                          | 328                                                    | MPa               | ASTM D790        |
| Impact                                                     | Nominal Value                                          | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)                              | 80                                                     | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)                            | 750                                                    | J/m               | ASTM D4812       |
| Electrical                                                 | Nominal Value                                          | Unit              | Test Method      |
| Surface Resistivity                                        |                                                        |                   |                  |
| --                                                         | < 1.0E+5                                               | ohms              | ASTM D257        |
| --                                                         | < 1.0E+4                                               | ohms              | ESD STM11.11     |
| Volume Resistivity                                         | < 10                                                   | ohms · cm         | ASTM D257        |
| Flammability                                               | Nominal Value                                          | Unit              | Test Method      |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | HB                                                     |                   | UL 94            |
| Injection                                                  | Nominal Value                                          | Unit              |                  |
| Drying Temperature                                         | 79.4                                                   | °C                |                  |
| Drying Time                                                | 4.0                                                    | hr                |                  |
| Dew Point                                                  | -17.8                                                  | °C                |                  |
| Processing (Melt) Temp                                     | 277 - 299                                              | °C                |                  |
| Mold Temperature                                           | 65.6 - 107                                             | °C                |                  |

|                        |            |     |
|------------------------|------------|-----|
| Injection Pressure     | 68.9 - 124 | MPa |
| Injection instructions |            |     |

Desiccant Type Dryer Required.

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