

# RTP 1381 D TFE 13 SI 2

Polyphenylene Sulfide

RTP Company

Message:

Carbon Fiber Reinforced - PTFE & Silicone Lubricated

| General Information                                        |                                   |                   |             |
|------------------------------------------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Carbon Fiber,10% Filler by Weight |                   |             |
| Additive                                                   | PTFE Lubricant (13%)              |                   |             |
|                                                            | Silicone Lubricant (2%)           |                   |             |
| Features                                                   | Lubricated                        |                   |             |
| 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)                         | 0.10                              | %                 | ASTM D955   |
| Mechanical                                                 | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus                                            | 11700                             | MPa               | ASTM D638   |
| Tensile Strength                                           | 145                               | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 1.0 to 2.0                        | %                 | ASTM D638   |
| Flexural Modulus                                           | 10300                             | MPa               | ASTM D790   |
| Flexural Strength                                          | 207                               | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 43                                | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | 370                               | J/m               | ASTM D4812  |
| Thermal                                                    | Nominal Value                     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | 260                               | °C                | ASTM D648   |
| Electrical                                                 | Nominal Value                     | Unit              | Test Method |
| Volume Resistivity                                         | < 1.0E+4                          | ohms · cm         | ASTM D257   |
| Flammability                                               | Nominal Value                     | Unit              | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | V-0                               |                   | UL 94       |
| Additional Information                                     | Nominal Value                     | Unit              |             |
| Primary Additive                                           | 10                                | %                 |             |
| Injection                                                  | Nominal Value                     | Unit              |             |
| Drying Temperature                                         | 121                               | °C                |             |
| Drying Time                                                | 4.0                               | hr                |             |
| Processing (Melt) Temp                                     | 302 to 343                        | °C                |             |
| Mold Temperature                                           | 135 to 177                        | °C                |             |

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