

# RTP 3583

Perfluoroethylene Propylene Copolymer

RTP Company

Message:

Carbon Fiber - Preliminary Data

| General Information                                        |                                   |                   |             |
|------------------------------------------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Carbon Fiber,20% Filler by Weight |                   |             |
| RoHS Compliance                                            | Contact Manufacturer              |                   |             |
| Processing Method                                          | Injection Molding                 |                   |             |
| Physical                                                   | Nominal Value                     | Unit              | Test Method |
| Specific Gravity                                           | 2.01                              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.50 to 0.90                      | %                 | ASTM D955   |
| Mechanical                                                 | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus                                            | 8270                              | MPa               | ASTM D638   |
| Tensile Strength                                           | 27.6                              | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 0.10 to 1.5                       | %                 | ASTM D638   |
| Flexural Modulus                                           | 6890                              | MPa               | ASTM D790   |
| Flexural Strength                                          | 48.3                              | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 210                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | 370                               | J/m               | ASTM D4812  |
| 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                                           | 20                                | %                 |             |
| Injection                                                  | Nominal Value                     | Unit              |             |
| Drying Temperature                                         | 121                               | °C                |             |
| Drying Time                                                | 2.0 to 4.0                        | hr                |             |
| Processing (Melt) Temp                                     | 343 to 385                        | °C                |             |
| Mold Temperature                                           | 93.3                              | °C                |             |
| Injection Pressure                                         | 20.7 to 55.2                      | MPa               |             |

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