

# RTP 4687

Syndiotactic Polystyrene

RTP Company

Message:

Carbon Fiber

| General Information                                     |                                   |                   |             |
|---------------------------------------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Carbon Fiber,40% Filler by Weight |                   |             |
| RoHS Compliance                                         | Contact Manufacturer              |                   |             |
| Processing Method                                       | Injection Molding                 |                   |             |
| Physical                                                | Nominal Value                     | Unit              | Test Method |
| Specific Gravity                                        | 1.24                              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                      | 0.10                              | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                          | 0.010                             | %                 | ASTM D570   |
| Moisture Content                                        | 0.020                             | %                 |             |
| Primary Additive                                        | 40                                | %                 |             |
| Mechanical                                              | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus                                         | 24100                             | MPa               | ASTM D638   |
| Tensile Strength                                        | 134                               | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                              | 0.60                              | %                 | ASTM D638   |
| Flexural Modulus                                        | 24100                             | MPa               | ASTM D790   |
| Flexural Strength                                       | 186                               | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                           | 48                                | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                         | 190                               | J/m               | ASTM D4812  |
| Thermal                                                 | Nominal Value                     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 238                               | °C                | ASTM D648   |
| Injection                                               | Nominal Value                     | Unit              |             |
| Drying Temperature                                      | 82.2                              | °C                |             |
| Drying Time                                             | 2.0                               | hr                |             |
| Dew Point                                               | -28.9                             | °C                |             |
| Processing (Melt) Temp                                  | 293 to 327                        | °C                |             |
| Mold Temperature                                        | 71.1 to 149                       | °C                |             |
| Injection Pressure                                      | 68.9 to 103                       | MPa               |             |

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