

# RTP 1305 P-1

Polyphenylene Sulfide

RTP Company

Message:

Glass Fiber

| General Information                                        |                                  |                   |             |
|------------------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Glass Fiber,30% Filler by Weight |                   |             |
| RoHS Compliance                                            | Contact Manufacturer             |                   |             |
| Processing Method                                          | Injection Molding                |                   |             |
| Physical                                                   | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                                           | 1.58                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.10 to 0.30                     | %                 | ASTM D955   |
| Moisture Content                                           | 0.040                            | %                 |             |
| Primary Additive                                           | 30                               | %                 |             |
| Mechanical                                                 | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                                            | 12400                            | MPa               | ASTM D638   |
| Tensile Strength                                           | 159                              | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 1.8                              | %                 | ASTM D638   |
| Flexural Modulus                                           | 11700                            | MPa               | ASTM D790   |
| Flexural Strength                                          | 214                              | 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)                            | 480                              | J/m               | ASTM D4812  |
| Thermal                                                    | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | 266                              | °C                | ASTM D648   |
| Flammability                                               | Nominal Value                    |                   | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | V-0                              |                   | UL 94       |
| Injection                                                  | Nominal Value                    | Unit              |             |
| Drying Temperature                                         | 149                              | °C                |             |
| Drying Time                                                | 6.0                              | hr                |             |
| Processing (Melt) Temp                                     | 307 to 329                       | °C                |             |
| Mold Temperature                                           | 135 to 177                       | °C                |             |
| Injection Pressure                                         | 68.9 to 103                      | MPa               |             |

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