

# RTP 1301 TFE 15

Polyphenylene Sulfide

RTP Company

Message:

Glass Fiber Reinforced - PTFE Lubricated

| General Information                                        |                                  |                   |             |
|------------------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Glass Fiber,10% Filler by Weight |                   |             |
| Additive                                                   | PTFE Lubricant (15%)             |                   |             |
| Features                                                   | Lubricated                       |                   |             |
| RoHS Compliance                                            | Contact Manufacturer             |                   |             |
| Processing Method                                          | Injection Molding                |                   |             |
| Physical                                                   | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                                           | 1.51                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.40                             | %                 | ASTM D955   |
| Moisture Content                                           | 0.040                            | %                 |             |
| Primary Additive                                           | 10                               | %                 |             |
| Mechanical                                                 | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                                            | 5860                             | MPa               | ASTM D638   |
| Tensile Strength                                           | 68.9                             | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 1.0 to 3.0                       | %                 | ASTM D638   |
| Flexural Modulus                                           | 5520                             | MPa               | ASTM D790   |
| Flexural Strength                                          | 89.6                             | 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)                            | 130                              | J/m               | ASTM D4812  |
| Thermal                                                    | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | 232                              | °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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