

# RTP 4000 TFE 15 SI 2

Polyphthalamide

RTP Company

Message:

PTFE Lubricated - Silicone Lubricated

| General Information                                        |                         |                   |             |
|------------------------------------------------------------|-------------------------|-------------------|-------------|
| Additive                                                   | PTFE lubricant (15%)    |                   |             |
|                                                            | Silicone lubricant (2%) |                   |             |
| Features                                                   | Lubrication             |                   |             |
| RoHS Compliance                                            | Contact manufacturer    |                   |             |
| Processing Method                                          | Injection molding       |                   |             |
| Physical                                                   | Nominal Value           | Unit              | Test Method |
| Specific Gravity                                           | 1.29                    | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 1.2 - 2.0               | %                 | ASTM D955   |
| Moisture Content                                           | 0.050                   | %                 |             |
| Primary Additive                                           | 15                      | %                 |             |
| Mechanical                                                 | Nominal Value           | Unit              | Test Method |
| Tensile Modulus                                            | 3170                    | MPa               | ASTM D638   |
| Tensile Strength                                           | 75.8                    | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 2.0 - 4.0               | %                 | ASTM D638   |
| Flexural Modulus                                           | 3310                    | MPa               | ASTM D790   |
| Flexural Strength                                          | 138                     | 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)                            | 430                     | J/m               | ASTM D4812  |
| Thermal                                                    | Nominal Value           | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | 143                     | °C                | ASTM D648   |
| Flammability                                               | Nominal Value           |                   | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | HB                      |                   | UL 94       |
| Injection                                                  | Nominal Value           | Unit              |             |
| Drying Temperature                                         | 107                     | °C                |             |
| Drying Time                                                | 4.0 - 6.0               | hr                |             |
| Dew Point                                                  | -31.7                   | °C                |             |
| Processing (Melt) Temp                                     | 302 - 329               | °C                |             |
| Mold Temperature                                           | 135 - 163               | °C                |             |
| Injection Pressure                                         | 68.9 - 124              | MPa               |             |
| Injection instructions                                     |                         |                   |             |

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Desiccant Type Dryer Required.

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