

# RTP 1500-72D TFE 15

Thermoplastic Elastomer, Ether-Ester

RTP Company

Message:

PTFE Lubricated - Preliminary Data

| General Information                                        |                      |                   |             |
|------------------------------------------------------------|----------------------|-------------------|-------------|
| Additive                                                   | PTFE lubricant (15%) |                   |             |
| Features                                                   | Lubrication          |                   |             |
| RoHS Compliance                                            | Contact manufacturer |                   |             |
| Processing Method                                          | Injection molding    |                   |             |
| Physical                                                   | Nominal Value        | Unit              | Test Method |
| Specific Gravity                                           | 1.31                 | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 1.5 - 2.0            | %                 | ASTM D955   |
| Hardness                                                   | Nominal Value        | Unit              | Test Method |
| Durometer Hardness (Shore D)                               | 72                   |                   | ASTM D2240  |
| Mechanical                                                 | Nominal Value        | Unit              | Test Method |
| Tensile Modulus                                            | 758                  | MPa               | ASTM D638   |
| Tensile Strength                                           | 31.0                 | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | > 400                | %                 | ASTM D638   |
| Flexural Modulus                                           | 827                  | MPa               | ASTM D790   |
| Thermal                                                    | Nominal Value        | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed)   | 96.1                 | °C                | ASTM D648   |
| Flammability                                               | Nominal Value        |                   | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | HB                   |                   | UL 94       |
| Additional Information                                     | Nominal Value        | Unit              |             |
| Primary Additive                                           | 15                   | %                 |             |
| Injection                                                  | Nominal Value        | Unit              |             |
| Drying Temperature                                         | 93.3                 | °C                |             |
| Drying Time                                                | 2.0 - 4.0            | hr                |             |
| Processing (Melt) Temp                                     | 210 - 238            | °C                |             |
| Mold Temperature                                           | 21.1 - 48.9          | °C                |             |
| Injection Pressure                                         | 68.9 - 103           | MPa               |             |
| Injection instructions                                     |                      |                   |             |

Desiccant Type Dryer Required.

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