

# RTP 1475 L

Polyethersulfone  
RTP Company

Message:  
Glass Fiber - Lubricated

| General Information                       |                                                       |                   |             |
|-------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass fiber reinforced material, 30% filler by weight |                   |             |
| Additive                                  | Lubricant                                             |                   |             |
| Features                                  | Lubrication                                           |                   |             |
| RoHS Compliance                           | Contact manufacturer                                  |                   |             |
| Processing Method                         | Injection molding                                     |                   |             |
| Physical                                  | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                          | 1.47                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)        | 0.30                                                  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)            | 0.41                                                  | %                 | ASTM D570   |
| Moisture Content                          | 0.040                                                 | %                 |             |
| Hardness                                  | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 122                                                   |                   | ASTM D785   |
| Mechanical                                | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                           | 5520                                                  | MPa               | ASTM D638   |
| Tensile Strength                          | 110                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                | 2.5 - 3.5                                             | %                 | ASTM D638   |
| Flexural Modulus                          | 5520                                                  | MPa               | ASTM D790   |
| Flexural Strength                         | 165                                                   | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)             | 64                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)           | 640                                                   | J/m               | ASTM D4812  |
| Thermal                                   | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load         |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed                    | 216                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                     | 210                                                   | °C                | ASTM D648   |
| CLTE - Flow                               | 3.6E-5                                                | cm/cm/°C          | ASTM E831   |
| Thermal Conductivity <sup>1</sup>         | 0.29                                                  | W/m/K             | ASTM E1530  |
| Electrical                                | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                        | > 1.0E+12                                             | ohms · cm         | ASTM D257   |
| Dielectric Strength <sup>2</sup> (in Oil) | 15                                                    | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)               | 3.90                                                  |                   | ASTM D150   |
| Dissipation Factor (1 MHz)                | 7.0E-3                                                |                   | ASTM D150   |
| Flammability                              | Nominal Value                                         | Unit              | 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    |
| Dew Point                                                  | -31.7                 | °C    |
| Processing (Melt) Temp                                     | 343 - 377             | °C    |
| Mold Temperature                                           | 135 - 177             | °C    |
| Injection Pressure                                         | 68.9 - 103            | MPa   |
| Injection instructions                                     |                       |       |
| Desiccant Type Dryer Required.                             |                       |       |
| NOTE                                                       |                       |       |
| 1.                                                         | Through-plane         |       |
| 2.                                                         | Method A (short time) |       |

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