

# RTP 2107 LF

Polyether Imide  
RTP Company

Message:  
Glass Fiber - Low Flow

| General Information                       |                                                       |                   |             |
|-------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass fiber reinforced material, 40% filler by weight |                   |             |
| Features                                  | Low liquidity                                         |                   |             |
| RoHS Compliance                           | Contact manufacturer                                  |                   |             |
| Processing Method                         | Injection molding                                     |                   |             |
| Physical                                  | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                          | 1.59                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)        | 0.10                                                  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)            | 0.18                                                  | %                 | ASTM D570   |
| Moisture Content                          | 0.040                                                 | %                 |             |
| Primary Additive                          | 40                                                    | %                 |             |
| Hardness                                  | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 123                                                   |                   | ASTM D785   |
| Mechanical                                | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                           | 13800                                                 | MPa               | ASTM D638   |
| Tensile Strength                          | 186                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                | 2.5                                                   | %                 | ASTM D638   |
| Flexural Modulus                          | 12400                                                 | MPa               | ASTM D790   |
| Flexural Strength                         | 262                                                   | MPa               | ASTM D790   |
| Compressive Strength                      | 169                                                   | MPa               | ASTM D695   |
| Impact                                    | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)             | 110                                                   | 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                    | 210                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                     | 207                                                   | °C                | ASTM D648   |
| CLTE - Flow                               | 2.0E-5                                                | cm/cm/°C          | ASTM E831   |
| Thermal Conductivity <sup>1</sup>         | 0.26                                                  | 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) | 20                                                    | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)               | 4.00                                                  |                   | ASTM D150   |
| Dissipation Factor (1 MHz)                | 5.0E-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                                                | 4.0                   | hr   |             |
| Dew Point                                                  | -28.9                 | °C   |             |
| Processing (Melt) Temp                                     | 354 - 399             | °C   |             |
| Mold Temperature                                           | 135 - 177             | °C   |             |
| Injection Pressure                                         | 82.7 - 124            | MPa  |             |
| Injection instructions                                     |                       |      |             |
| Desiccant Type Dryer Required.                             |                       |      |             |
| NOTE                                                       |                       |      |             |
| 1.                                                         | Through-plane         |      |             |
| 2.                                                         | Method A (short time) |      |             |

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