

# RTP 301 TFE 15 FR L

Polycarbonate  
RTP Company

Message:

Glass Fiber - PTFE Lubricated - Flame Retardant - Non-PBBO/E - UL94 V-0

| General Information                |                                                       |                   |             |
|------------------------------------|-------------------------------------------------------|-------------------|-------------|
| UL YellowCard                      | E84658-251449                                         |                   |             |
| Filler / Reinforcement             | Glass fiber reinforced material, 10% filler by weight |                   |             |
| Additive                           | PTFE lubricant (15%)                                  |                   |             |
| Features                           | Lubrication                                           |                   |             |
|                                    | Flame retardancy                                      |                   |             |
| RoHS Compliance                    | Contact manufacturer                                  |                   |             |
| Processing Method                  | Injection molding                                     |                   |             |
| Physical                           | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                   | 1.38                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm) | 0.20 - 0.40                                           | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.10                                                  | %                 | ASTM D570   |
| Moisture Content                   | 0.020                                                 | %                 |             |
| Primary Additive                   | 10                                                    | %                 |             |
| Mechanical                         | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                    | 4480                                                  | MPa               | ASTM D638   |
| Tensile Strength                   | 62.1                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Yield)         | 5.0 - 8.0                                             | %                 | ASTM D638   |
| Flexural Modulus                   | 3790                                                  | MPa               | ASTM D790   |
| Flexural Strength                  | 103                                                   | MPa               | ASTM D790   |
| Impact                             | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)      | 120                                                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)    | 800                                                   | J/m               | ASTM D4812  |
| Thermal                            | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load  |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 143                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed              | 138                                                   | °C                | ASTM D648   |
| Electrical                         | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                 | > 1.0E+16                                             | ohms · cm         | ASTM D257   |
| Flammability                       | Nominal Value                                         | Unit              | Test Method |
| Flame Rating (1.50 mm)             | V-0                                                   |                   | UL 94       |
| Injection                          | Nominal Value                                         | Unit              |             |
| Drying Temperature                 | 121                                                   | °C                |             |

|                        |            |     |
|------------------------|------------|-----|
| Drying Time            | 4.0        | hr  |
| Dew Point              | -28.9      | °C  |
| Processing (Melt) Temp | 288 - 316  | °C  |
| Mold Temperature       | 82.2 - 121 | °C  |
| Injection Pressure     | 68.9 - 103 | MPa |

#### Injection instructions

Desiccant Type Dryer Required.

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