

# RTP 300 LF FR A UV

Polycarbonate  
RTP Company

Message:

Low Flow - Unreinforced - Flame Retardant - UV Stabilized - UL94 V-0

| General Information                |                      |                   |             |
|------------------------------------|----------------------|-------------------|-------------|
| UL YellowCard                      | E84658-251436        |                   |             |
| Additive                           | UV stabilizer        |                   |             |
| Features                           | Low liquidity        |                   |             |
|                                    | Flame retardancy     |                   |             |
| RoHS Compliance                    | Contact manufacturer |                   |             |
| Processing Method                  | Extrusion            |                   |             |
| Physical                           | Nominal Value        | Unit              | Test Method |
| Specific Gravity                   | 1.21                 | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm) | 0.70 - 0.90          | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.15                 | %                 | ASTM D570   |
| Moisture Content                   | 0.020                | %                 |             |
| Mechanical                         | Nominal Value        | Unit              | Test Method |
| Tensile Modulus                    | 2410                 | MPa               | ASTM D638   |
| Tensile Strength                   | 58.6                 | MPa               | ASTM D638   |
| Tensile Elongation (Yield)         | > 10                 | %                 | ASTM D638   |
| Flexural Modulus                   | 2410                 | MPa               | ASTM D790   |
| Flexural Strength                  | 89.6                 | MPa               | ASTM D790   |
| Impact                             | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)      | 690                  | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)    | No Break             |                   | ASTM D4812  |
| Thermal                            | Nominal Value        | Unit              | Test Method |
| Deflection Temperature Under Load  |                      |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 132                  | °C                | ASTM D648   |
| 1.8 MPa, not annealed              | 127                  | °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                       |                      |                   | UL 94       |
| 1.50 mm                            | V-0                  |                   | UL 94       |
| 3.00 mm                            | V-0                  |                   | UL 94       |
| Injection                          | Nominal Value        | Unit              |             |
| Dew Point                          | -28.9                | °C                |             |

#### Injection instructions

Desiccant Type Dryer Required.

| Extrusion          | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 121           | °C   |
| Drying Time        | 4.0           | hr   |
| Melt Temperature   | 288 - 316     | °C   |
| Die Temperature    | 82.2 - 121    | °C   |

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