

# RTP 305 FR L

Polycarbonate  
RTP Company

Message:

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

| General Information                       |                                                       |         |             |
|-------------------------------------------|-------------------------------------------------------|---------|-------------|
| UL YellowCard                             | E84658-251454                                         |         |             |
| Filler / Reinforcement                    | Glass fiber reinforced material, 30% filler by weight |         |             |
| Additive                                  | Lubricant                                             |         |             |
| Features                                  | Lubrication                                           |         |             |
|                                           | Flame retardancy                                      |         |             |
| RoHS Compliance                           | Contact manufacturer                                  |         |             |
| Processing Method                         | Injection molding                                     |         |             |
| Physical                                  | Nominal Value                                         | Unit    | Test Method |
| Specific Gravity                          | 1.44                                                  | g/cm³   | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)        | 0.10 - 0.30                                           | %       | ASTM D955   |
| Water Absorption (23°C, 24 hr)            | 0.070                                                 | %       | ASTM D570   |
| Moisture Content                          | 0.020                                                 | %       |             |
| Primary Additive                          | 30                                                    | %       |             |
| Hardness                                  | Nominal Value                                         | Unit    | Test Method |
| Rockwell Hardness (R-Scale)               | 119                                                   |         | ASTM D785   |
| Mechanical                                | Nominal Value                                         | Unit    | Test Method |
| Tensile Modulus                           | 8960                                                  | MPa     | ASTM D638   |
| Tensile Strength                          | 124                                                   | MPa     | ASTM D638   |
| Tensile Elongation (Yield)                | 3.0 - 4.0                                             | %       | ASTM D638   |
| Flexural Modulus                          | 7930                                                  | MPa     | ASTM D790   |
| Flexural Strength                         | 179                                                   | MPa     | ASTM D790   |
| Impact                                    | Nominal Value                                         | Unit    | Test Method |
| Notched Izod Impact (3.20 mm)             | 160                                                   | 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                    | 149                                                   | °C      | ASTM D648   |
| 1.8 MPa, not annealed                     | 146                                                   | °C      | ASTM D648   |
| Electrical                                | Nominal Value                                         | Unit    | Test Method |
| Volume Resistivity                        | > 1.0E+16                                             | ohms·cm | ASTM D257   |
| Dielectric Strength <sup>1</sup> (in Oil) | 18                                                    | kV/mm   | ASTM D149   |
| Dielectric Constant (1 MHz)               | 3.40                                                  |         | ASTM D150   |

|                                |               |      |             |
|--------------------------------|---------------|------|-------------|
| Dissipation Factor (1 MHz)     | 7.0E-3        |      | ASTM D150   |
| 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. |               |      |             |
| NOTE                           |               |      |             |

1. Method A (short time)

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