

# RTP 303 SE

Polycarbonate  
RTP Company

Message:

Glass Fiber - Self Extinguishing - Halogen Free - UL94 V-2

| General Information                       |                                                       |                   |             |
|-------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| UL YellowCard                             | E84658-251451                                         |                   |             |
| Filler / Reinforcement                    | Glass fiber reinforced material, 20% filler by weight |                   |             |
| Features                                  | Halogen-free                                          |                   |             |
|                                           | Self-extinguishing                                    |                   |             |
| RoHS Compliance                           | Contact manufacturer                                  |                   |             |
| Processing Method                         | Injection molding                                     |                   |             |
| Physical                                  | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                          | 1.33                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)        | 0.15 - 0.30                                           | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)            | 0.10                                                  | %                 | ASTM D570   |
| Moisture Content                          | 0.020                                                 | %                 |             |
| Primary Additive                          | 20                                                    | %                 |             |
| Hardness                                  | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 118                                                   |                   | ASTM D785   |
| Mechanical                                | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                           | 5860                                                  | MPa               | ASTM D638   |
| Tensile Strength                          | 103                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                | 3.5 - 5.5                                             | %                 | 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)             | 140                                                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)           | 960                                                   | 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                     | 143                                                   | °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) | 19                                                    | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)               | 3.20                                                  |                   | ASTM D150   |
| Dissipation Factor (1 MHz)                | 8.0E-3                                                |                   | ASTM D150   |

|                                |                       |      |             |
|--------------------------------|-----------------------|------|-------------|
| Arc Resistance                 | 120                   | sec  | ASTM D495   |
| Flammability                   | Nominal Value         | Unit | Test Method |
| Flame Rating                   |                       |      | UL 94       |
| 1.50 mm                        | V-2                   |      | UL 94       |
| 3.00 mm                        | V-1                   |      | 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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