

# RTP 103 FR

Polypropylene  
RTP Company

Message:  
Glass Fiber - Flame Retardant - UL94 V-0

| General Information                       |                                  |                   |             |
|-------------------------------------------|----------------------------------|-------------------|-------------|
| UL YellowCard                             | E84658-251539                    |                   |             |
| Filler / Reinforcement                    | Glass Fiber,20% Filler by Weight |                   |             |
| Features                                  | Flame Retardant                  |                   |             |
| RoHS Compliance                           | Contact Manufacturer             |                   |             |
| Processing Method                         | Injection Molding                |                   |             |
| Physical                                  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                          | 1.43                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)        | 0.20 to 0.40                     | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)            | 0.010                            | %                 | ASTM D570   |
| Hardness                                  | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 104                              |                   | ASTM D785   |
| Mechanical                                | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                           | 6550                             | MPa               | ASTM D638   |
| Tensile Strength                          | 51.7                             | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                | 1.0 to 2.0                       | %                 | ASTM D638   |
| Flexural Modulus                          | 5520                             | MPa               | ASTM D790   |
| Flexural Strength                         | 82.7                             | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)             | 48                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)           | 210                              | J/m               | ASTM D4812  |
| Thermal                                   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load         |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 149                              | °C                |             |
| 1.8 MPa, Unannealed                       | 138                              | °C                |             |
| Electrical                                | Nominal Value                    | Unit              | Test Method |
| Volume Resistivity                        | > 1.0E+15                        | ohms · cm         | ASTM D257   |
| Dielectric Strength <sup>1</sup> (in Oil) | 19                               | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)               | 3.00                             |                   | ASTM D150   |
| Dissipation Factor (1 MHz)                | 2.0E-3                           |                   | ASTM D150   |
| Arc Resistance                            | 80.0                             | sec               | ASTM D495   |
| Flammability                              | Nominal Value                    | Unit              | Test Method |
| Flame Rating (0.800 mm)                   | V-0                              |                   | UL 94       |
| Additional Information                    | Nominal Value                    | Unit              |             |

|                        |                       |      |
|------------------------|-----------------------|------|
| Primary Additive       | 20                    | %    |
| Injection              | Nominal Value         | Unit |
| Drying Temperature     | 79.4                  | °C   |
| Drying Time            | 2.0                   | hr   |
| Processing (Melt) Temp | 191 to 232            | °C   |
| Mold Temperature       | 32.2 to 65.6          | °C   |
| Injection Pressure     | 68.9 to 103           | MPa  |
| NOTE                   |                       |      |
| 1.                     | Method A (Short-Time) |      |

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