

# RTP 401 FR

General Purpose Polystyrene  
RTP Company

Message:

Glass Fiber - Flame Retardant - UL94

| General Information                       |                                  |                   |             |
|-------------------------------------------|----------------------------------|-------------------|-------------|
| UL YellowCard                             | E84658-251591                    |                   |             |
| Filler / Reinforcement                    | Glass Fiber,10% Filler by Weight |                   |             |
| Features                                  | Flame Retardant                  |                   |             |
| RoHS Compliance                           | Contact Manufacturer             |                   |             |
| Processing Method                         | Injection Molding                |                   |             |
| Physical                                  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                          | 1.23                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)        | 0.20 to 0.30                     | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)            | 0.10                             | %                 | ASTM D570   |
| Mechanical                                | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                           | 4140                             | MPa               | ASTM D638   |
| Tensile Strength                          | 37.9                             | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                | 1.5 to 2.5                       | %                 | ASTM D638   |
| Flexural Modulus                          | 3790                             | MPa               | ASTM D790   |
| Flexural Strength                         | 62.1                             | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)             | 53                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)           | 160                              | J/m               | ASTM D4812  |
| Thermal                                   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load         |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 98.9                             | °C                |             |
| 1.8 MPa, Unannealed                       | 82.2                             | °C                |             |
| Electrical                                | Nominal Value                    | Unit              | Test Method |
| Volume Resistivity                        | > 1.0E+16                        | ohms · cm         | ASTM D257   |
| Dielectric Strength <sup>1</sup> (in Oil) | 17                               | kV/mm             | ASTM D149   |
| Flammability                              | Nominal Value                    | Unit              | Test Method |
| Flame Rating (1.50 mm)                    | V-0                              |                   | UL 94       |
| Additional Information                    | Nominal Value                    | Unit              |             |
| Primary Additive                          | 10                               | %                 |             |
| Injection                                 | Nominal Value                    | Unit              |             |
| Drying Temperature                        | 82.2                             | °C                |             |
| Drying Time                               | 2.0                              | hr                |             |
| Processing (Melt) Temp                    | 210 to 249                       | °C                |             |

|                    |              |     |
|--------------------|--------------|-----|
| Mold Temperature   | 37.8 to 65.6 | °C  |
| Injection Pressure | 68.9 to 103  | MPa |
| NOTE               |              |     |

1. Method A (Short-Time)

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