

# RTP 3400 G-345

Liquid Crystal Polymer

RTP Company

Message:

Glass Fiber - UL94 V-0

| General Information                                     |                                 |                   |             |
|---------------------------------------------------------|---------------------------------|-------------------|-------------|
| UL YellowCard                                           | E84658-251351                   |                   |             |
| Filler / Reinforcement                                  | Glass fiber reinforced material |                   |             |
| RoHS Compliance                                         | Contact manufacturer            |                   |             |
| Processing Method                                       | Injection molding               |                   |             |
| Physical                                                | Nominal Value                   | Unit              | Test Method |
| Specific Gravity                                        | 1.76                            | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                      | 0.020 - 0.10                    | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                          | 0.10                            | %                 | ASTM D570   |
| Mechanical                                              | Nominal Value                   | Unit              | Test Method |
| Tensile Modulus                                         | 13100                           | MPa               | ASTM D638   |
| Tensile Strength                                        | 117                             | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                              | 2.0 - 3.0                       | %                 | ASTM D638   |
| Flexural Modulus                                        | 13800                           | MPa               | ASTM D790   |
| Flexural Strength                                       | 152                             | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                   | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                           | 91                              | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                         | 750                             | J/m               | ASTM D4812  |
| Thermal                                                 | Nominal Value                   | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 254                             | °C                | ASTM D648   |
| Electrical                                              | Nominal Value                   | Unit              | Test Method |
| Dielectric Strength <sup>1</sup> (in Oil)               | 35                              | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)                             | 3.40                            |                   | ASTM D150   |
| Dissipation Factor (1 MHz)                              | 0.031                           |                   | ASTM D150   |
| Flammability                                            | Nominal Value                   | Unit              | Test Method |
| Flame Rating (0.500 mm)                                 | V-0                             |                   | UL 94       |
| Injection                                               | Nominal Value                   | Unit              |             |
| Drying Temperature                                      | 149                             | °C                |             |
| Drying Time                                             | 8.0                             | hr                |             |
| Dew Point                                               | -28.9                           | °C                |             |
| Processing (Melt) Temp                                  | 332 - 366                       | °C                |             |
| Mold Temperature                                        | 65.6 - 121                      | °C                |             |
| Injection Pressure                                      | 82.7 - 124                      | MPa               |             |

#### Injection instructions

The key to successfully molding this material is to start mold open cycles as soon as the screw reaches its retracted position.

#### NOTE

1. Method A (short time)

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