

# RTP 3400 M-450

Liquid Crystal Polymer

RTP Company

Message:

Mineral

| General Information                                        |                      |                   |             |
|------------------------------------------------------------|----------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Mineral filler       |                   |             |
| 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 - 0.15         | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                             | 0.10                 | %                 | ASTM D570   |
| Mechanical                                                 | Nominal Value        | Unit              | Test Method |
| Tensile Modulus                                            | 8960                 | MPa               | ASTM D638   |
| Tensile Strength                                           | 110                  | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 2.0                  | %                 | ASTM D638   |
| Flexural Modulus                                           | 11000                | MPa               | ASTM D790   |
| Flexural Strength                                          | 145                  | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 69                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | 590                  | J/m               | ASTM D4812  |
| Thermal                                                    | Nominal Value        | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | 283                  | °C                | ASTM D648   |
| Flammability                                               | Nominal Value        |                   | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | 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                                     | 363 - 399            | °C                |             |
| Mold Temperature                                           | 65.6 - 93.3          | °C                |             |
| Injection Pressure                                         | 68.9 - 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.

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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