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## Product Data Sheet & General Processing Conditions

### RTP 3499-3 X 113393 A Liquid Crystal Polymer (LCP) Glass Fiber LDS Platable

#### PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE                                   | English      | SI Metric | ASTM TEST |
|----------------------------------------------|--------------|-----------|-----------|
| Specific Gravity                             | 1.76         | 1.76      | D 792     |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0015 in/in | 0.15 %    | D 955     |

#### MECHANICAL

|                                   |                            |             |        |
|-----------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod             |                            |             |        |
| notched 1/8 in (3.2 mm) section   | 3.9 ft-lbs/in              | 208 J/m     | D 256  |
| unnotched 1/8 in (3.2 mm) section | 14.0 ft-lbs/in             | 747 J/m     | D 4812 |
| Tensile Strength                  | 17900 psi                  | 123 MPa     | D 638  |
| Tensile Elongation                | 2.0 - 3.0 %                | 2.0 - 3.0 % | D 638  |
| Tensile Modulus                   | 1.80 x 10 <sup>6</sup> psi | 12411 MPa   | D 638  |
| Flexural Strength                 | 24000 psi                  | 165 MPa     | D 790  |
| Flexural Modulus                  | 1.80 x 10 <sup>6</sup> psi | 12411 MPa   | D 790  |

#### ELECTRICAL

|                                 |        |        |       |
|---------------------------------|--------|--------|-------|
| Dielectric Constant, 1 MHz, Dry | 3.8    | 3.8    | D 150 |
| Dissipation Factor, 1 MHz, Dry  | 0.0300 | 0.0300 | D 150 |

#### THERMAL

|                        |               |              |        |
|------------------------|---------------|--------------|--------|
| Deflection Temperature |               |              |        |
| @ 264 psi (1820 kPa)   | 530 °F        | 277 °C       | D 648  |
| @ 66 psi (455 kPa)     | 455 °F        | 235 °C       | D 648  |
| Ignition Resistance*   |               |              |        |
| Flammability**         | V-0 @ 1/16 in | V-0 @ 1.5 mm | D 3801 |

#### PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

\*\* Values per RTP Company testing.

#### GENERAL PROCESSING FOR INJECTION MOLDING

|                    | English           | SI Metric      |
|--------------------|-------------------|----------------|
| Injection Pressure | 12000 - 18000 psi | 83 - 124 MPa   |
| Melt Temperature   | 630 - 690 °F      | 332 - 366 °C   |
| Mold Temperature   | 150 - 250 °F      | 66 - 121 °C    |
| Drying             | 8 hrs @ 300 °F    | 8 hrs @ 149 °C |
| Dew Point          | -20 °F            | -29 °C         |