

(+) 18816996168

Poncioplastics.com



**Product Data Sheet &  
General Processing Conditions**

**RTP 3401-3  
Liquid Crystal Polymer (LCP)  
Glass Fiber**

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

| PERMANENCE                                   | English      | SI Metric | ASTM<br>TEST |
|----------------------------------------------|--------------|-----------|--------------|
| Primary Additive                             | 10 %         | 10 %      |              |
| Specific Gravity                             | 1.48         | 1.48      | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0030 in/in | 0.30 %    | D 955        |

**MECHANICAL**

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 3.0 ft-lbs/in              | 160 J/m     | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 10.0 ft-lbs/in             | 534 J/m     | D 4812 |
| Tensile Strength                                         | 23500 psi                  | 162 MPa     | D 638  |
| Tensile Elongation                                       | 2.0 - 3.0 %                | 2.0 - 3.0 % | D 638  |
| Tensile Modulus                                          | 1.65 x 10 <sup>6</sup> psi | 11377 MPa   | D 638  |
| Flexural Strength                                        | 27000 psi                  | 186 MPa     | D 790  |
| Flexural Modulus                                         | 1.45 x 10 <sup>6</sup> psi | 9998 MPa    | D 790  |

**THERMAL**

|                                                |        |        |       |
|------------------------------------------------|--------|--------|-------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 510 °F | 266 °C | D 648 |
|------------------------------------------------|--------|--------|-------|

**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.

**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         |

**PROCESSING NOTES**

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