



**Product Data Sheet &  
General Processing Conditions**

**RTP 3407-1  
Liquid Crystal Polymer (LCP)  
Glass Fiber**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	40 %	40 %	
Specific Gravity	1.71	1.71	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0020 in/in	0.10 - 0.20 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.5 ft-lbs/in	80 J/m	D 256
unnotched 1/8 in (3.2 mm) section	6.0 ft-lbs/in	320 J/m	D 4812
Tensile Strength	24000 psi	165 MPa	D 638
Tensile Elongation	2.0 %	2.0 %	D 638
Tensile Modulus	2.50 x 10 <sup>6</sup> psi	17238 MPa	D 638
Flexural Strength	34500 psi	238 MPa	D 790
Flexural Modulus	2.30 x 10 <sup>6</sup> psi	15858 MPa	D 790

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	435 °F	224 °C	D 648
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**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**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	5000 - 12000 psi	34 - 83 MPa
Melt Temperature	520 - 575 °F	271 - 302 °C
Mold Temperature	100 - 200 °F	38 - 93 °C
Drying	4 hrs @ 300 °F	4 hrs @ 149 °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.