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Ponciplastics.com



**Product Data Sheet &
General Processing Conditions**

**RTP 3499-3 X 91193 A
Liquid Crystal Polymer (LCP)
Encapsulation grade
High Dielectric Constant**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	2.04	2.04	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 - 0.0030 in/in	0.20 - 0.30 %	D 955
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.8 ft-lbs/in	43 J/m	D 256
unnotched 1/8 in (3.2 mm) section	3.0 ft-lbs/in	160 J/m	D 4812
Tensile Strength	11000 psi	76 MPa	D 638
Tensile Elongation	0.8 %	0.8 %	D 638
Tensile Modulus	2.10 x 10 ⁶ psi	14480 MPa	D 638
Flexural Strength	16000 psi	110 MPa	D 790
Flexural Modulus	2.00 x 10 ⁶ psi	13790 MPa	D 790
ELECTRICAL			
Dielectric Constant, 1 MHz, Dry	4.8	4.8	D 150
THERMAL			
Deflection Temperature @ 264 psi (1820 kPa)	480 °F	249 °C	D 648
@ 66 psi (455 kPa)	530 °F	277 °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

PROCESSING NOTES

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