

Product Data - LCT L Continuous Cast Acrylic



TYPICAL PROPERTIES

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D792	–	1.19
Optical Refractive Index	ASTM D542	–	1.49
Light Transmission- total	ASTM D1003	%	92
Light Transmission- haze	ASTM D1003	%	<1
Water Absorption	ASTM D570	%	0.2
MECHANICAL			
Tensile Strength	ASTM D638	psi	11,000
Tensile Modulus of Elasticity Flexural	ASTM D638	psi	465,000
Strength	ASTM D790	psi	14,700
Flexural Modulus of Elasticity	ASTM D790	psi	461,000
Izod Impact Strength - Milled Notch	ASTM D256	ft-lb./in	0.32
Compressive Strength	ASTM D 695	psi	83,300
Shear Strength	ASTM D732	psi	11,200
Rockwell hardness	ASTM D785	–	M-100
THERMAL			
Maximum Recommended			
Continuous Service Temperature	–	°F	175
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D648	°F	200
Coefficient of Linear Thermal Expansion Thermal	ASTM D696	in/in/°F	3.5 x 10 ⁻⁵
Conductivity	ASTM C177	Btu-ft/ft ² /hr/°F	0.12
Flammability (Burning Rate)	ASTM D635	In/min	1.18
Flammability	UL 94	–	HB
Smoke Density Rating	ASTM D2843	%	13.5
Self-Ignition Temperature	ASTM D1929	°F	750
Flame Spread Index	ASTM E84	–	110
Smoke Developed Index	ASTM E84	–	530
ELECTRICAL			
Dielectric Constant @ 1 KHz	ASTM D150	–	3.0
Dielectric Constant @ 1 MHz	ASTM D150	–	2.7
Dielectric Strength	ASTM D149	V/mil	354
Volume Resistivity	ASTM D257	Ohms/cm	>3.91 x 10 ¹⁵

These data are presented only as typical properties of the base resins which, to our best knowledge, are true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guaranty or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise. All risks of such use are assumed by the user. Furthermore, nothing contained herein shall be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing or future patents.