

OPTIX[®] L CONTINUOUS CAST ACRYLIC

OPTIX L continuous cast acrylic sheet has the highest clarity. It is easy to fabricate and form for many applications for interior and exterior applications with exceptional UV stability. It has superior thickness tolerance compared to cell cast sheets. OPTIX L is easy to clean and offers superior craze and chemical resistance. It is available in gauge range of 0.080" - 0.354". Custom gauged and sheet sizes are available.

APPLICATIONS

Furniture, cosmetic displays, interior partitions, signage

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	ASTM D638	psi	465,000
Flexural 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	ASTM D696	in/in/°F	3.5 x 10 ⁻⁵
Thermal 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

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These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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