

OPTIX[®] L FRAME GRADE

OPTIX L Frame Grade continuous cast sheet has 100% guarantee of no black speck contamination. This acrylic sheet has the highest clarity. It is easy to fabricate and fit to framing requirements in many applications and it can be used either for interior or exterior applications. OPTIX L Frame Grade is easy to clean and offers superior craze and chemical resistance. It is available in 0.090" - 0.177" and is available in a wide range of sheet sizes. Cut sizes and additional information available on request.

APPLICATIONS

Framing solutions for homes, museums, public buildings and private showcases

TYPICAL PROPERTIES*

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D792	-	1.19
Water Absorption 24 hrs @ 23°C	ASTM D570	%	0.2
2 hrs boiling water immersion		%	0.6
MECHANICAL			
Tensile Strength	ASTM D638	psi	11,000
% Elongation @ Break		%	7.6
Modulus of Elasticity		psi	465,000
% Elongation @ Yield		%	6.0
Flexural Strength		psi	14,700
Flexural Modulus	ASTM D790	psi	461,000
Impact Strength			
Compressive Strength (x-y plane)	ASTM D695	psi	83,300
Compressive Stress @ Yield		psi	18,000
Compressive Modulus		psi	279,000
Charpy (un-notched)	ASTM D256	ft-lb/in/in	5.0
Charpy (notched)	ASTM D6110	J/m	20.8
Shear Strength (punch tool)	ASTM D732	psi	11,200
Izod (procedure A)	ASTM D256	ft-lb/in	0.32
Rockwell Hardness	ASTM D785		M-100
Residual Shrinkage (Internal Strength)	ASTM D702	%	2.5 maximum
OPTICAL			
Refractive Index	ASTM D542	-	1.49
Haze	ASTM D1003	%	< 1
Light Transmission	ASTM D1003	%	92
Yellowness Index (YI)		-	< 0.3
THERMAL			
Maximum Continuous Service Temperature	-	°F	175 (d)
Coefficient of Thermal Conductivity	-	Btu-in/ft ² /hr/°F	1.45
Deflection Temperature Under Load, 264 psi	ASTM D648	°F	200
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F	3.5 E ⁻⁰⁵
Specific Heat	-	Btu/lb/°F	0.35
Smoke Density Rating	ASTM D2843	%	13.5
Smoke Developed Index	ASTM E84	-	750
Flame Spread Index	ASTM E84	-	95
Specific Energy	-	Btu/lb	11,300
Self Ignition Temperature	ASTM D1929	°F	750
Radiant Panel, Flame Spread index	ASTM E162	-	155
Horizontal Burn	ASTM D635	in./min.	0.71
UL Horizontal Burn Rating	UL94	-	HB
ELECTRICAL			
Volume Resistivity	ASTM D257	Ohm/cm	>3.912E ⁺¹⁵
Surface Resistivity	ASTM D257	Ohm/sq	> 5.237E ⁺¹⁵
Dielectric Strength (2000v/sec)	ASTM D149	V/mil	354
Dielectric Constant, k			
60 Hz		Hz	3.3
1 KHz	ASTM D150	Hz	3.0
1 MHz		Hz	2.7
Dissipation Factor, D			
60 Hz		Hz	0.06
1 KHz		Hz	0.04
1 MHz		Hz	0.02
Arc Resistance	ASTM D495	-	No tracking

*All listed test values are on 0.236" thickness

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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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