

Lucite® L Product Data



TABLE I LUCITE® L CAST ACRYLIC SHEET/PRODUCT DATA

Property	ASTM	Units
Thickness, Nominal, Inch Specific Gravity	D792	0.236 1.19
Optical Refractive Index Light Transmittance () Parallel () Total () Haze Spectral Transmission () 290 to 330 nm, 0.25" sheet, max. percent	D542 D1003 DU-792 Beckman	1.49 91% 92% 1% 5%
Mechanical Tensile Strength () Rupture () Modulus of Elasticity () Elongation at Rupture Flexural Strength () Rupture () Modulus of Elasticity Compressive Strength () Yield () Modulus of Elasticity Shear Strength Impact Strength () Charpy Unnotched Rockwell Hardness	D638 D790 D695 D732 D256 D785	11M psi (770 kg/cm ²) 564M psi (3.9 x 10 ⁴ kg/cm ²) 4.1% 14.8M psi (1,040 kg/cm ²) 450M psi (3.1 x 10 ⁴ kg/cm ²) 14.8M psi (1,040 kg/cm ²) 279M psi (1.95 x 10 ⁴ kg/cm ²) 8.4M psi (590 kg/cm ²) 5.0 ft. lb./in. ² (0.35 kg/cm ²) M-100
Thermal Hot Forming Temperature Heat Distortion Temperature 3.6°F (2°C)/Min-264 psi Coefficient of Thermal Expansion (ave. value) ² Maximum Recommended Continuous Service Temperature Coefficient of Thermal Conductivity Shrinkage, max. percent Specific Heat	D648 D696	275 350°F (135-177°C) 200°F (93°C)* 3.9 x 10 ⁻⁵ in./in./°F (7 x 10 ⁻⁵ cm/cm/°C) 175°F (79°C) 1.45 Btu in./ft ² hr.°F (0.209 w/m•k) 2.5% 0.35 Btu/lb.°F (0.35 Cal/gr °C)

Lucite® L cast acrylic sheet is combustible like many other synthetic and natural building materials. Small scale tests are not intended to reflect hazards under actual fire conditions. *This value changes with thickness. Value given is for 0.236" thickness or where otherwise indicated. All values are for clear product.

1. These are typical or average values and should not be used for specification purposes.
2. Change in dimensions = coefficient x (dimension of sheet) x (change in temperature.)

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Property	ASTM	Units
Electrical Surface resistivity, 82°F (28°C), 75% RH Volume Resistivity Dielectric Strength, Short Time Test Dielectric Constant () 60 cycles () 10 ³ cycles () 10 ⁶ cycles Power Factor () 60 cycles () 10 ³ cycles () 10 ⁶ cycles Arc Resistance	D257 D257 D149 D150 D150 D495	>10 ¹⁴ ohm 4 x 10 ¹¹ ohm/mil (10 ¹⁵ ohm/cm) 0.42 kv/mil (20 kv/mm) 4 3 3 0.06 0.04 0.02 No Tracking
Miscellaneous Water Absorption (Wt. gain on Immersion for 24 hrs.) Soluble Matter Lost after Immersion Odor Taste Dimensional tolerances, inches: () Length, width () squareness, difference in length of diagonal	D570 D570	0.3% 0.0% None None +1/4" - 0" ≤ 1/4"
Combustibility* Smoke Density Rating Tunnel Test (Smoke Developed) () 0.118" () 0.236" Fuel Contribution Factor Auto Ignition Temperature Rate of Flame Spread () 0.118" () 0.236" Radiant Panel, Flame Spread Index () 0.118" () 0.236" Horizontal Burn () 0.118" () 0.236" UL Horizontal Burning Rating	D2843 E84 D1929 E84 E162 D635 UL94	13.5% 385 530 11,300 Btu/lb. (26.3 x 10 ⁶ J/kg) 750°F 140 110 219 249 1.18 in./min. 0.71 in./min. 94 HB



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