

lucitelux[®] Thick Acrylic Sheet Technical Bulletin

TECHNICAL BULLETIN

Physical Properties	Test method	Unit	Typical Value
Hardness, Rockwell	ASTM D785	M-scale	102
Tensile Strength @ Break	ASTM D638	Kgf/cm ²	760
Elongation @ Break	ASTM D638	%	4.5
Flexural Strength	ASTM D790	Kgf/cm ²	1200
Flexural Modulus	ASTM D790	Kgf/cm ²	3 x 10 ⁴
Charpy Impact Strength	ASTM D256	Kg.cm/cm	12
Heat Distortion Temperature	ASTM D648	°C °F	100 212
Vicat Softening Point	ASTM D1525, (method B)	°C °F	≥ 105 ≥ 221
Flammability	UL94	-	HB
Light Transmission	ASTM D1003	%	92

The information is given in good faith and is based on our general experience, but because of the many particular factors which are outside our knowledge and control that affect the use of products, no warranty is given or is to be implied. Freedom from patent rights must not be assumed.

lucitelux® thick acrylic sheet

FABRICATION

CLEANING PHYSICAL PROPERTIES

LuciteLux® thick sheet should be washed simply with clean water to which a little detergent has been added. The use of any solvents such as methylated spirits, turpentine, white spirit or proprietary window cleaning products not recommended.

DIMENSIONS

Sheet length and Width tolerance

At 30°C the tolerance on the length and width of a sheet shall be +/- 2mm

Remark: Acrylic sheet has higher thermal expansion than many traditional building materials, typically 0.7 mm per meter per 10 degree-C.

Rectangular tolerances

The difference between the lengths of the two diagonals of rectangular sheet is not more than 2 mm.

THICKNESS TOLERANCE

Thickness tolerances for all sheet sizes up to 4x8 feet

NOMINAL THICKNESS (mm)	MIN THICKNESS (mm)	MAX THICKNESS (mm)	+/- mm	+/- %
2.00	1.29	2.56	+0.559 -0.711	+27.95 -35.55
2.50	1.76	3.03	+0.533 -0.737	+21.32 -29.48
3.00	2.24	3.51	+0.508 -0.762	+16.93 -25.40
4.50	3.54	5.06	+0.559 -0.965	+12.42 -21.44
6.00	4.86	6.64	+0.635 -1.140	+10.58 -19.00
8.00	6.65	8.69	+0.686 -1.350	+8.58 -16.88
9.00	7.48	9.76	+0.762 -1.520	+8.47 -16.89
10.00	8.39	10.76	+0.762 -1.780	+7.62 -16.10
12.00	10.22	12.76	+0.762 -1.780	+6.35 -14.83
15.00	13.20	15.74	+0.737 -1.800	+4.91 -12.00
18.00	15.97	18.76	+0.762 -2.03	+4.23 -11.28