

TECHNICAL DATA SHEET

MODEN GLAS

Thailand cast acrylic sheet

KEY CHARACTERISTIC

- Weathering resistance
- Lighter in weight
- Easy to fabrication
- Able to recycle

APPLICATION

Sign, Lighting, Automotive, Decoration, POP & POS, Glazing, Roofing, Balustrade and etc.

PRODUCT RANGE

- Standard size : 4x8 ft
- Standard Thickness : 2-40 mm
- Standard color: Clear, Transparent, Translucent

MASKING

MODEN GLAS or NAB LED will be individual cladded both side with a protective cover of pressure sensitive polyethylene film or pressure sensitive paper. Unless otherwise agreed in writing with customer.

DIMENSION

Sheet length and Width tolerance

At 30 °C the tolerance on the length and width of a sheet shall be -0/+4 mm.

Sheet Rectangularity tolerance

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



Thickness tolerances for normal size (i.e. 4x8 ft, 1x2 M)

NORMINAL THICKNESS	MINIMUM THICKNESS (mm)	MAXIMUM THICKNESS (mm)	± (mm)	± (%)
1.75	1.40	2.10	0.40	20
2.00	1.60	2.40	0.40	20
2.50	2.05	2.95	0.45	18
2.80	2.38	3.22	0.42	15
3.00	2.55	3.45	0.45	15
3.20	2.72	3.68	0.48	15
3.50	2.98	4.03	0.53	15
4.00	3.44	4.56	0.56	14
4.50	3.87	5.13	0.63	14
4.76	4.10	5.42	0.66	14
5.00	4.30	5.70	0.70	14
5.50	4.73	6.27	0.77	14
6.00	5.16	6.84	0.84	14
8.00	6.96	9.04	1.04	13
9.00	7.83	10.17	1.17	13
10.00	8.70	11.30	1.30	13
12.00	10.44	13.56	1.56	13
13.00	11.31	14.69	1.69	13
15.00	13.20	16.80	1.80	12
18.00	15.84	20.16	2.16	12
20.00	17.60	22.40	2.40	12
25.00	22.00	28.00	3.00	12
30.00	26.40	33.60	3.60	12
40.00	36.00	44.00	4.00	10

Thickness tolerances for special size (i.e. 2x3 M)

NORMINAL THICKNESS	MINIMUM THICKNESS (mm)	MAXIMUM THICKNESS (mm)	± (mm)	± (%)
3.00	2.25	3.75	0.75	25
3.20	2.40	4.00	0.80	25
3.50	2.70	4.30	0.80	23
4.00	3.20	4.80	0.80	20
4.50	3.60	5.40	0.90	20
5.00	4.10	5.90	0.90	18
6.00	4.92	7.08	1.08	18
8.00	6.80	9.20	1.20	15
10.00	8.60	11.40	1.40	14
12.00	10.44	13.56	1.56	13
15.00	13.20	16.80	1.80	12



MODEN GLAS

PROPERTIES

Item	Test method	Unit	Typical Value (M-000)
Hardness, Rockwell	ASTM D785	M-scale	102
Tensile Strength @ Break	ASTM D638	Kgf/cm ² MPa	760 74.5
Elongation @ Break	ASTM D638	%	4.5
Flexural Strength	ASTM D790	Kgf/cm ² MPa	1200 117.7
Flexural Modulus	ASTM D790	Kgf/cm ² MPa	3 x 10 ⁴ 2.9 x 10 ³
Charpy Impact Strength (Unnotched)	ASTM D256	KJ/m ²	12
Heat Distortion Temperature	ASTM D648	Deg-C	100
Vicat Soften Point	ASTM D1525	Deg-C	≥105
Light Transmission	ASTM D1003	%	92
Haze	ASTM D1003	%	-
Flammability	UL 94	-	HB
Burning rate	UL 94	mm/min	-

Remark The values presented on the above typical laboratory average, not to be construed as specifications and may vary within moderate ranges. The applicability or the accuracy of this information or the suitability of our products cannot be guarantee because the conditions of use the part of our users are beyond our control.

VISUAL QUALITY CRITERIA

VISUAL QUALITY CRITERIA FOR NET MARKET CLEAR & COLORS.			
Defect Classification	Fibrous Inclusions	Other Inclusion	Surface Faults
UNACCEPTABLE Reject sheet if any defect of within this classification exists.	More than 5 mm long.	More than 2 mm diameter. or more than 3 mm ² in area	More than 2 mm diameter or more than 3 mm ² or more than 5 mm long.
ACCEPTABLE No more than <u>FOUR</u> acceptable defects within any circle of 500 mm diameter	Between 2 and 5 mm long.	Between 1 and 2 mm diameter or between 1 and 3 mm ² in area.	Between 1 and 2 mm diameter or between 1 and 3 mm ² in area or between 2 and 5 mm long
NEGLECTIBLE No significant concentration of negligible defects shall be present within the sheet	Less than 2 mm long.	Less than 1 mm diameter or less than 1 mm ² in area.	Less than 1 mm diameter or 1 mm ² in area or less than 2 mm long.



مقاس اللوح
244 x 122 cm
Sheet Size

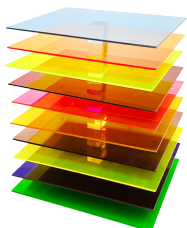
أكريليك ملون
Colored Acrylic

3336 367 136 6 mm 2.8 mm 2.5 mm 2 mm

السماكات المتوفرة
Available thicknesses

يتوفر مجموعة عالية من الألوان القياسية المتسقة والمستقرة تلي احتياجات التصميم والاستخدام في تطبيقات مختلفة.

A wide range of consistent and stable standard colors are available to meet your needs Design and use in different applications.



مقاس اللوح
244 x 122 cm
Sheet Size

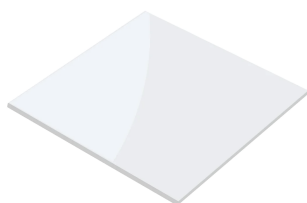
شفاف ملون
Colored Clear

2.5 mm

السماكات المتوفرة
Available thicknesses

يتوفر مجموعة واسعة من الألوان الشفافة القياسي تلي احتياجات التصميم والاستخدام في تطبيقات مختلفة.

It includes a wide range of basic touches to the basic components and use in different applications.



مقاس اللوح
244 x 122 cm
Sheet Size

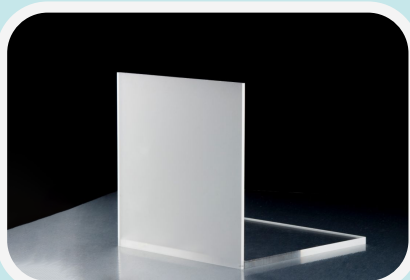
أكريليك أبيض
Opal Acrylic

8 mm 6 mm 5 mm 4 mm 2.8 mm 2.5 mm 2 mm
30 mm 25 mm 20 mm 18 mm 15 mm 12 mm 10 mm

السماكات المتوفرة
Available thicknesses

يتميز بمستوى عالي من الجودة تضمن لون ثابت ونفاذية ضوء عالية مناسبة لتطبيقات كثيرة مثل اللوحات الإعلانية والديكورات إلخ..

It has high quality and high light transmittance that solution for many applications like signage, decorations, etc.



مقاس اللوح
244 x 122 cm
Sheet Size

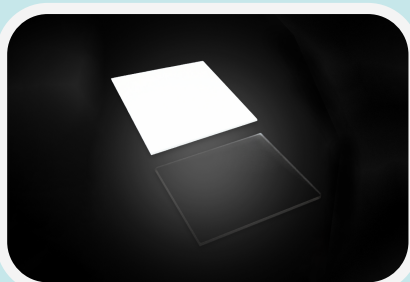
أكريليك مثلج
Frosted Acrylic

2.5 mm

السماكات المتوفرة
Available thicknesses

ذو سطح معالج ومتجانس يسمح بتشتيت الضوء وتوزيعه بشكل متساوي ليعطي مظهر مطفي مناسب لكثير من التطبيقات.

It has a treated and homogeneous surface that allows light to be dispersed and distributed evenly to give a matte appearance suitable for many applications.



أكريليك شفاف وأبيض جامبو
Clear & white jumbo acrylic

3 mm

السماكات المتوفرة
Available thicknesses

مقاس اللوح
305 x 203 cm
Sheet Size