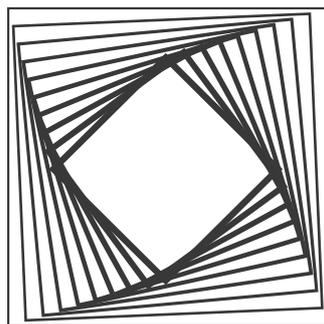
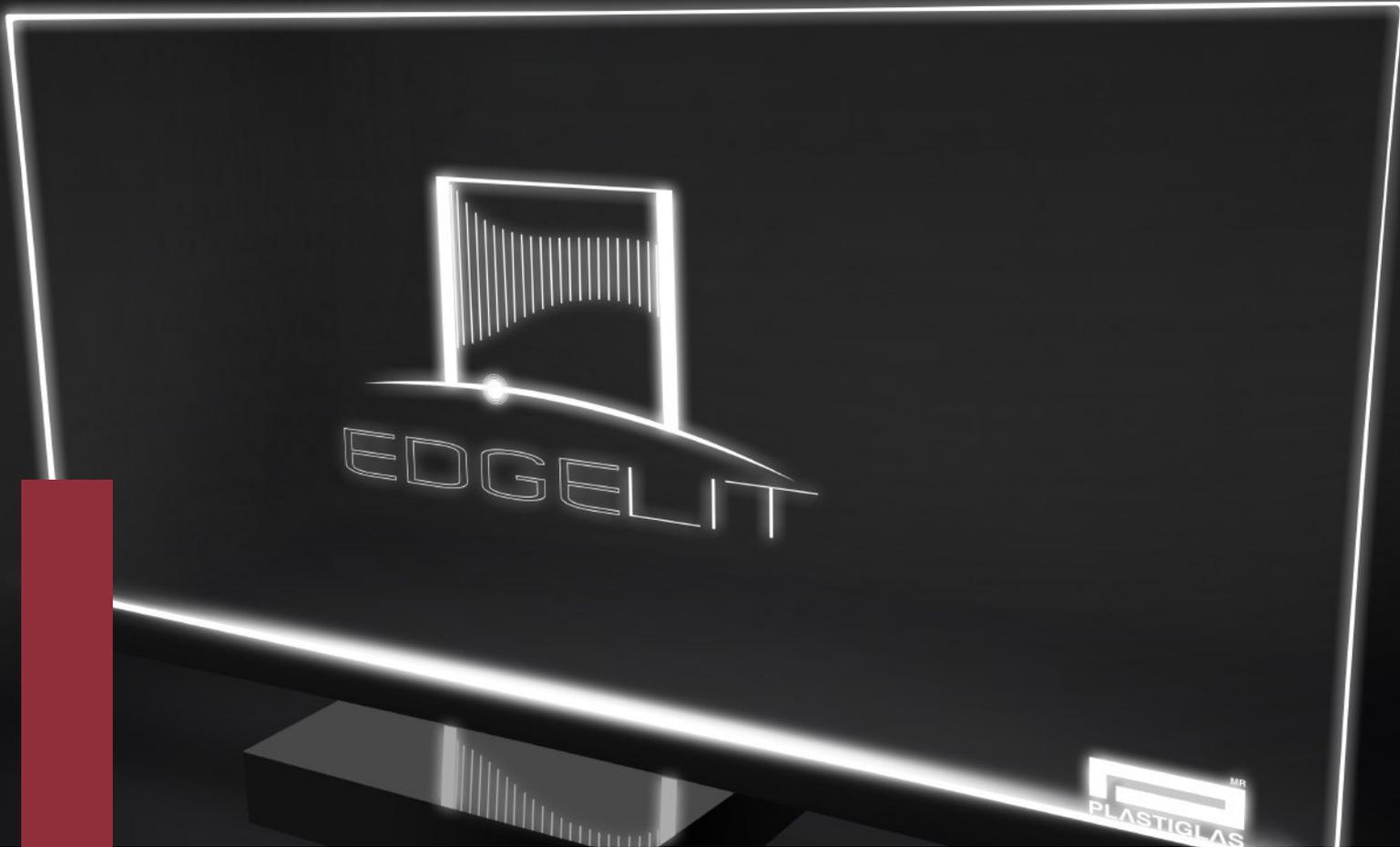
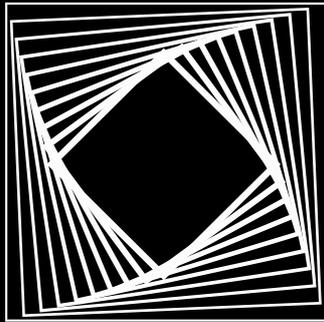


CHEMCAST[®]
The all purpose cell-cast acrylic sheet

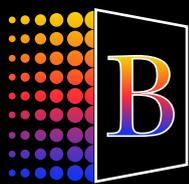


PTI-K

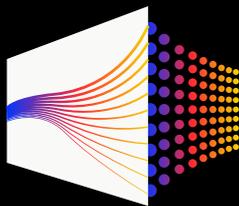
BRIGHT IDEAS
IN ACRYLIC



 **PTI-K**



BLACK&LED



LUXO
WHITE



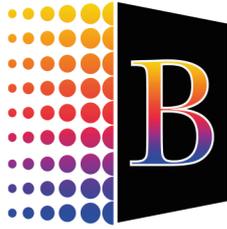
EDGELIT

OPTI-K product portfolio consists on three different products for illumination with led:

BLACK & LED

LUXO

EDGE LIT



BLACK & LED

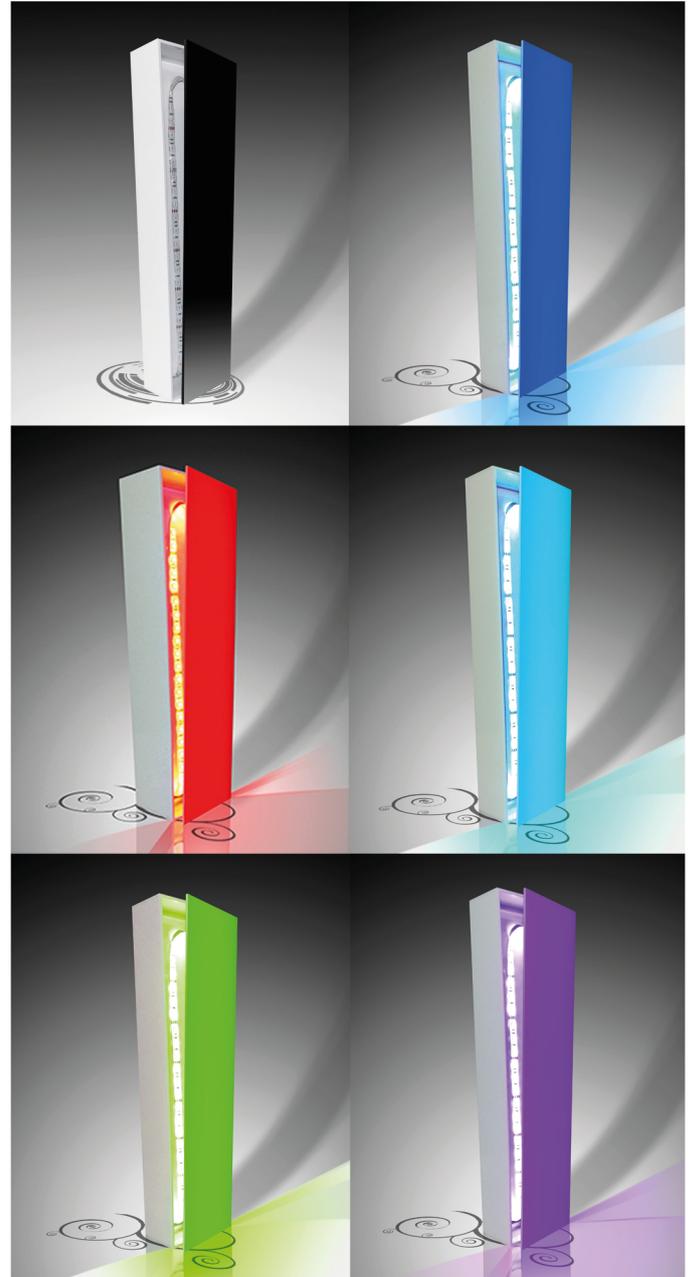
BLACK & LED Is a cell cast acrylic sheet with a matte finish side that performs as light diffuser. When the product is illuminated by led light, it acquires the color of the light source. The led light technology makes possible any application imaginable, modern and versatile designs.

APPLICATIONS

- Signs.
- Illuminated point of purchase displays.
- Art design and architecture.
- Outdoor or indoor use.

BLACK & LED SHEET SIZES AND THICKNESSES AVAILABLE

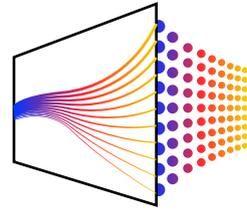
Size		Thickness	
48"x96"		0.118" & 0.177"	



TYPICAL THICKNESS TOLERANCE

Nominal Sheet Size		Nominal Thickness		Tolerance %	Control Limits	
(in)	(m)	(in)	(mm)		(mm)	(in)
48"X96"	2.40X1.20	0.118"	3.00	10	2.70 - 3.30	0.106 - 0.130
		0.177"	4.50	10	4.05 - 4.95	0.159 - 0.195

Reported values are based on production records. Thickness tolerances allowed by ASTM D4802 official norm are the reference for acrylic sheets.



LUXO
WHITE

LUXO is a new acrylic sheet with higher light transmission properties compared to other white tones available in the market. LUXO has a bright color that is highlighted when it is illuminated with a white led or any other color from led light.

One glossy side and a matte finish the other side, which allows uniform light diffusion and prevents the light source to show the "pin point" effect.

APPLICATIONS

- Signs.
- Illuminated point of purchase displays.
- Art design and architecture.
- Outdoor or indoor use.

LUXO SHEET SIZES AND THICKNESSES AVAILABLE

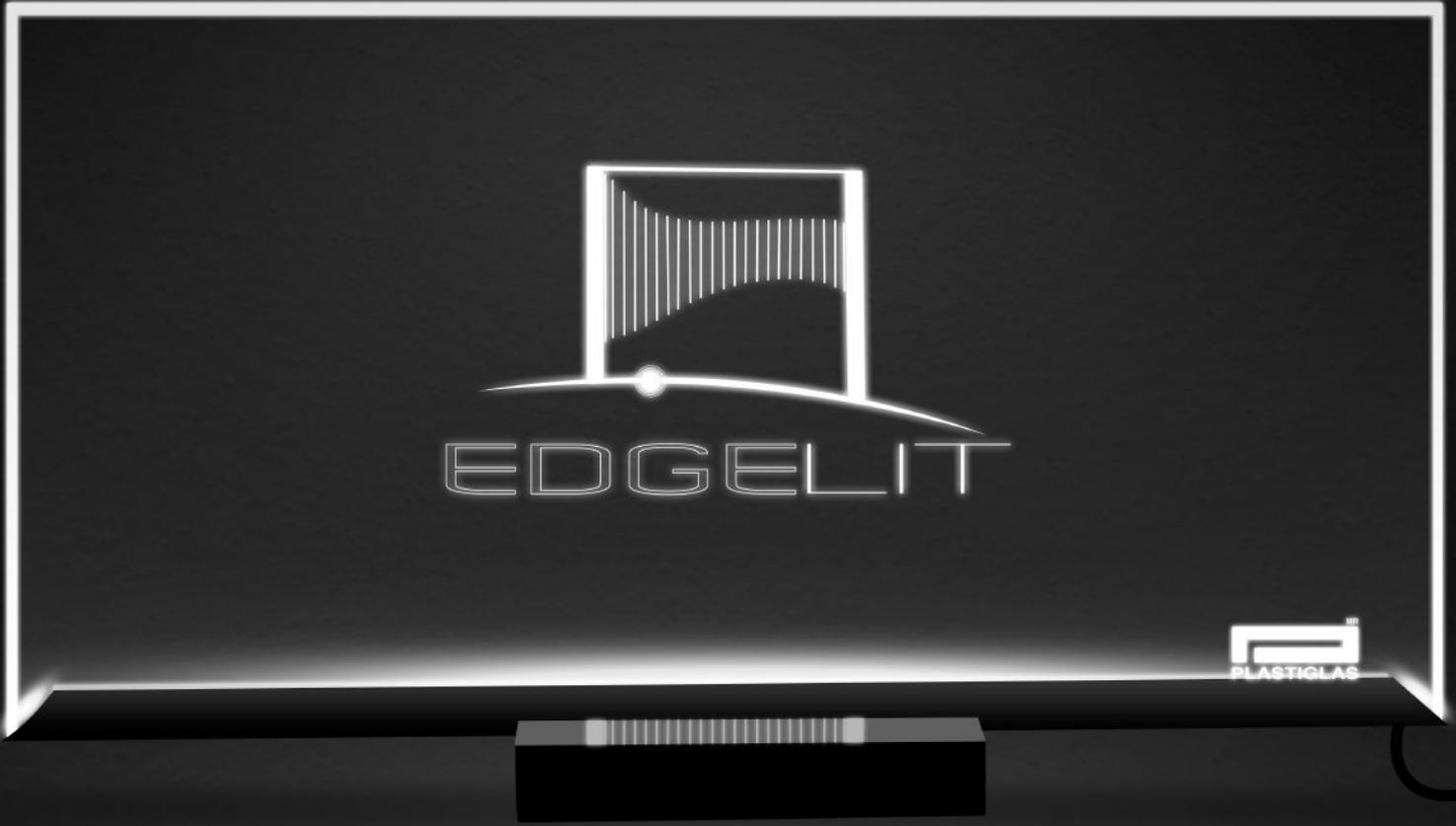
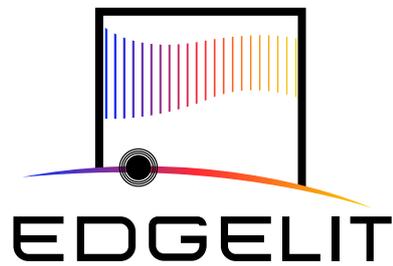
Size
48"x96"

Thickness
0.118" & 0.177"

TYPICAL THICKNESS TOLERANCE

Nominal Sheet Size		Nominal Thickness		Tolerance %	Control Limits	
(in)	(m)	(in)	(mm)	(+/-)	(mm)	(in)
48"x96"	2.40x1.20	0.118"	3.00	10	2.70 - 3.30	0.106 - 0.130
		0.177"	4.50	10	4.05 - 4.95	0.159 - 0.195

Reported values are based on production records. Thickness tolerances allowed by ASTM D4802 official norm are the reference for acrylic sheets.



EDGELIT is a clear cell cast acrylic that when it is illuminated with led light, its nano-particles in the formulation allow a uniform light transmittance on its edges and or engraved surface. EDGELIT maximizes the benefits of the led technology covering the needs of a modern market in lighting advertising, architecture, design and art industries.

APPLICATIONS

- Signs.
- Illuminated point of purchase displays.
- Art design and architecture.
- Outdoor or indoor use.

EDGE SHEET SIZES AND THICKNESSES AVAILABLE

Size
48"x96"

Thickness
0.236"

TYPICAL THICKNESS TOLERANCE

Nominal Sheet Size		Nominal Thickness		Tolerance %	Control Limits	
(in)	(m)	(in)	(mm)	(+/-)	(mm)	(in)
48"X96"	2.40X1.20	0.236"	6.00	10	5.40 - 6.60	0.213 - 0.260

- For availability of the product in other thicknesses, please contact Customer Service.
- Reported values are based on production records. Thickness tolerances allowed by ASTM D4802 official norm are the reference for acrylic sheets.

OPTI-K COLORS:

Black & Led H -30
Luxo I -26
Edge Lit L -30

PHYSICAL AND MECHANICAL PROPERTIES

PROPERTY	TYPICAL VALUE (1)	TEST METHOD
<u>OPTICAL</u>		
Specific Gravity	1.18	ASTM D 792
Optical Refractive Index	1.49	ASTM D542
Haze (%)	2.0	ASTM D542
Light Transmission (%)		
- Black & Led	29%	ASTM 1003
- Luxo	38%	ASTM 1003
- Edge Lit	92%	ASTM 1003
<u>MECHANICAL</u>		
Tensile Strength (psi)	9600	ASTM D638
Elongation at Rupture (%)	4.5	ASTM D638
Modulus of Elasticity (psi)	425,000	ASTM D798
Impact Strength (ft lb/in)	0.4 - 0.5	ASTM 256
Flexural Strength (psi)	15000 - 16000	ASTM D 798
Rockwell Hardness	M (90 - 100)	ASTM 785
Barcol Hardness	50	ASTM 2583
<u>THERMAL</u>		
Forming Temperature (°C)	140 - 180	
(°F)	284 - 356	
Deflection Temperature Under Load (264 psi) (°C)	91	ASTMD 648
(°F)	196	ASTMD 648
Maximum recommended continuous service temp (°C)	80	ASTM 1525
(°F)	176	ASTM 1525
<u>MISCELLANEOUS</u>		
Water absorption (24 hrs. - 23°C -73°F) (%)	0.3%	ASTM 570

All values are referred to 0.118" (3.0 mm) acrylic sheet. These values are typical and should not be taken as specifications.

CHEMICAL RESISTANCE

CHEMICAL	CODE	CHEMICAL	CODE
Acetic Acid (10%)	LR	Hydrogen Peroxide (3%)	R
Acetic Acid (glacial)	N	Isopropyl Alcohol	LR
Acetone	N	Kerosene	R
Ammonium Chloride	R	Lacquer Thinner	N
Ammonium Hydroxide	R	Methyl Alcohol (30%)	LR
Benzene	N	Methyl Alcohol (100%)	N
Calcium chloride	R	Methyl Ethyl Ketone	N
Carbon Tetrachloride	N	Methylene Chloride	N
Chloroform	LR	Nitric Acid (10%)	R
Chromic Acid (10%)	N	Nitric Acid (100%)	N
Chromic Acid (conc.)	N	Phenol (5%)	N
Diethyl Ether	LR	Sodium Chloride	R
IOctI Phthalate	LR	Sodium Hydroxide (10%)	R
Ethyl Alcohol (30%)	N	Sodium Hypochlorite	R
Ethyl Alcohol (95%)	N	Sulfuric Acid (3%)	N
Ethylene Dichloride	N	Sulfuric Acid (conc.)	N
Ethylene Glycol	R	Toluene	N
Gasoline	LR	Trichloroethylene	N
Glycerin	R	Turpentine	R
Hexane	R	Water (distilled)	R
Hydrochloric Acid	R	Xylene	N

Codes used to describe chemical resistance as follows:

R = RESISTANT

Acrylic cast withstand this substance for long periods and at temperature up to 120°F (49°C).

LR = LIMITED RESISTANCE

Acrylic only resists the action of this substance for short periods at room temperature.

N = NOT RESISTANT

Acrylic is not resistant to this substance. It is either swelled, attacked, dissolved or damaged in some manner.

LIMITED WARRANTY

Plastiglas de Mexico warrants its cell cast acrylic sheets against any origin manufacture defect. Warranty covers properties and characteristics expressed in the catalog of product. This is a limited warranty only for the CHEMCAST® cell cast acrylic sheet. No transformation or installation jobs are considered in it.

This limited warranty does not consider any fault or damage during sheet transformation or installation. Customer should follow the technical recommendations for processing CHEMCAST® cell cast acrylic sheet.

This limited warranty does not consider any damage caused for the excessive heat exposure and or any non-recommended chemical agents used for cleaning and maintenance. Customer should see the Plastiglas de Mexico's recommended maintenance methods.

Plastiglas de Mexico has no liability under any circumstance for the cost of removal of defective sheet or the installation of replacement sheet or for indirect incidental or consequential damage. In order to make a claim under the foregoing warranty, please contact Plastiglas de Mexico or any of our representatives. You will be required to show a representative evidence of the problem and provide a purchase order number and or information regarding batch number printed on the label of the acrylic sheet.

Time frames for claim's acceptance:

- 1.- Quality in the delivery: Immediately after the reception of the material.
- 2.- Protective paper anchoring: 6 months after the manufacturing date written on the product label
- 3.- Performance and processability: 1 year after the manufacturing date written on the product label.

WWW.CHEMCAST.COM.MX

CHEMCAST[®]
The all purpose cell-cast acrylic sheet

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