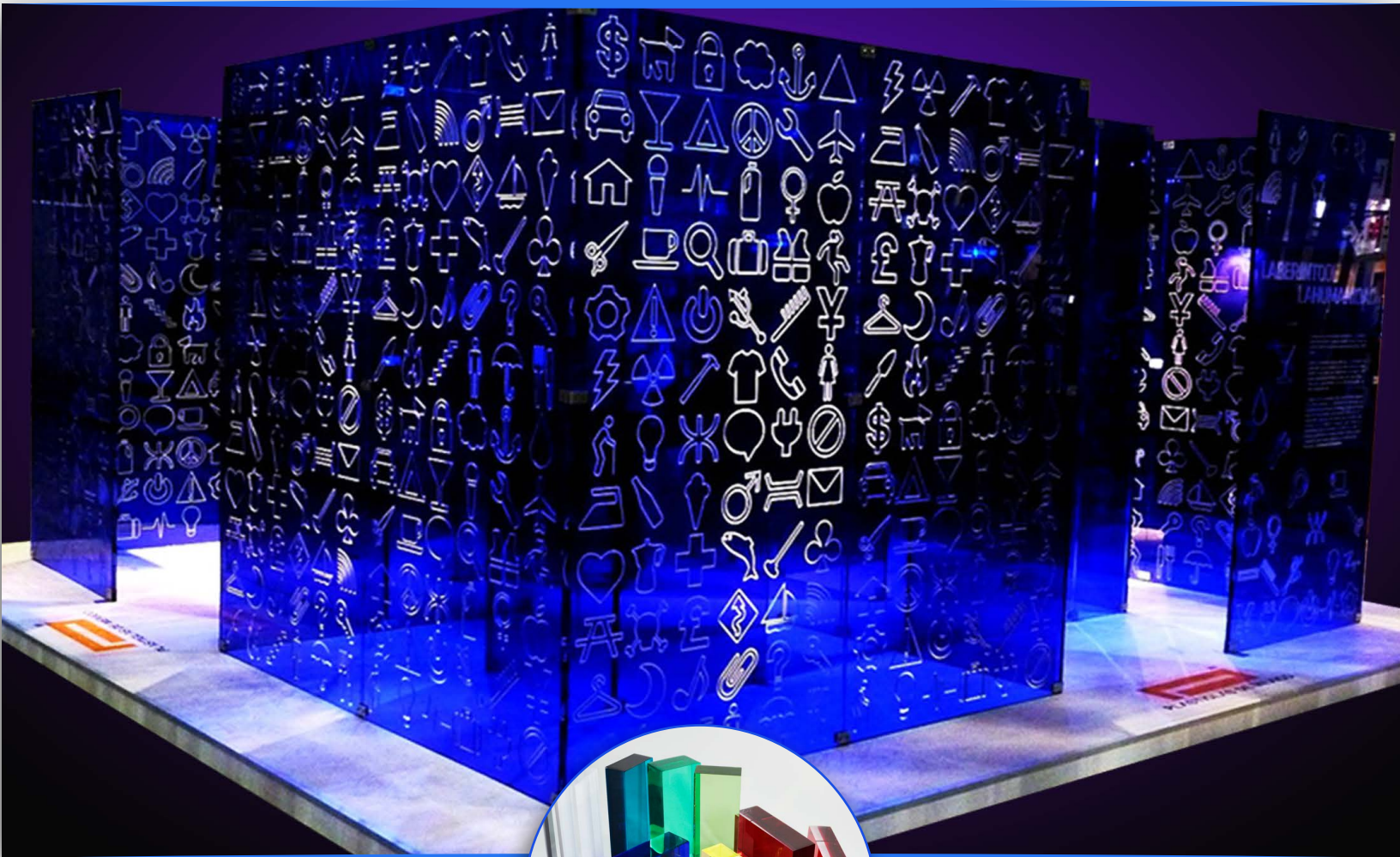




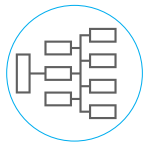
# bicolor

P R E M I U M A C R Y L I C

**CHEMCAST®**



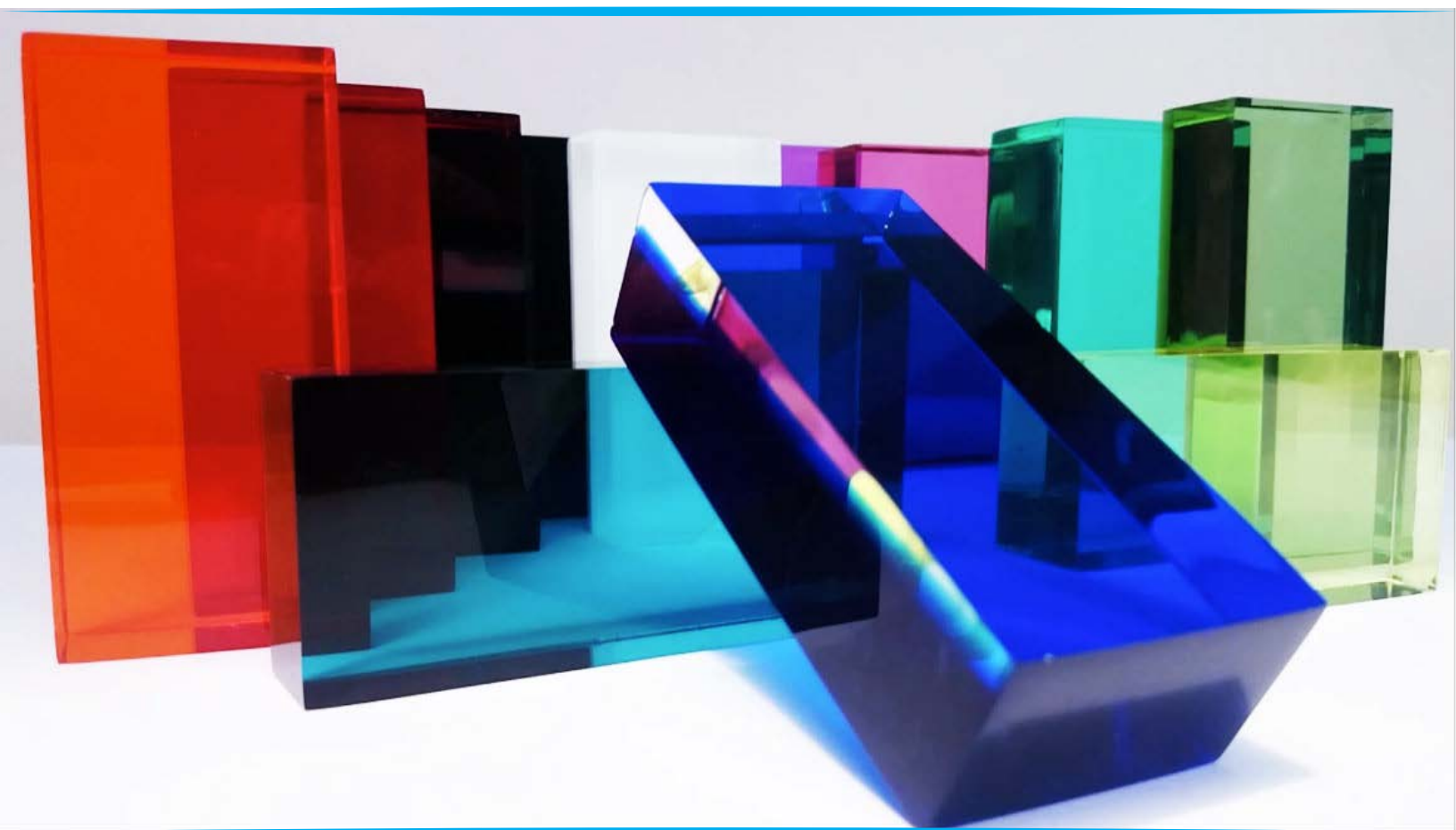
# INTRODUCTION



BiColor® is our brand of two colors -thick gauge acrylics manufactured in Mexico by Plastiglas. Its appearance allows freedom to designers, architects and interior decorators to create environments to live and enjoy offering sensations upon changing the tone of artificial and natural light when its edge or surface are lightened.

BiColor® is a monolithic acrylic of two layers that shows a translucent color and another in clear; this gives to this product a unique aspect. This product has been developed with hi -tec by Plastiglas and allows light diffusion in a spectrum of color. Since it is monolithic it avoids the internal defects normally obtained in cemented substrates and can be thermoformed with no delaminating of the color keeping its optical symmetry in the final piece.

BiColor® is available in range of exciting colors and it allows designers and interior decorators to develop projects where light and color have a leading role.



# APPLICATIONS AND PRODUCT RANGE



-BiColor sheet is recommended for indoor application only.



-Illumination and interior design with cold light, warm light and Led's.



-Internal partitions.



-Table covers in restaurants, Fast-food and bars.



-Counters at and hospitals and hotel's receptions.



-Furniture details as inserts in wood, solid surface and quartz.



-Garden tables and displays islands (POP).



-Decorative articles.

# BENEFITS



-Highly aesthetic.



-High light transmittance.



-Creates optical effects depending on Edge finishing.



-Harmonizes environments.



-Hygienic.



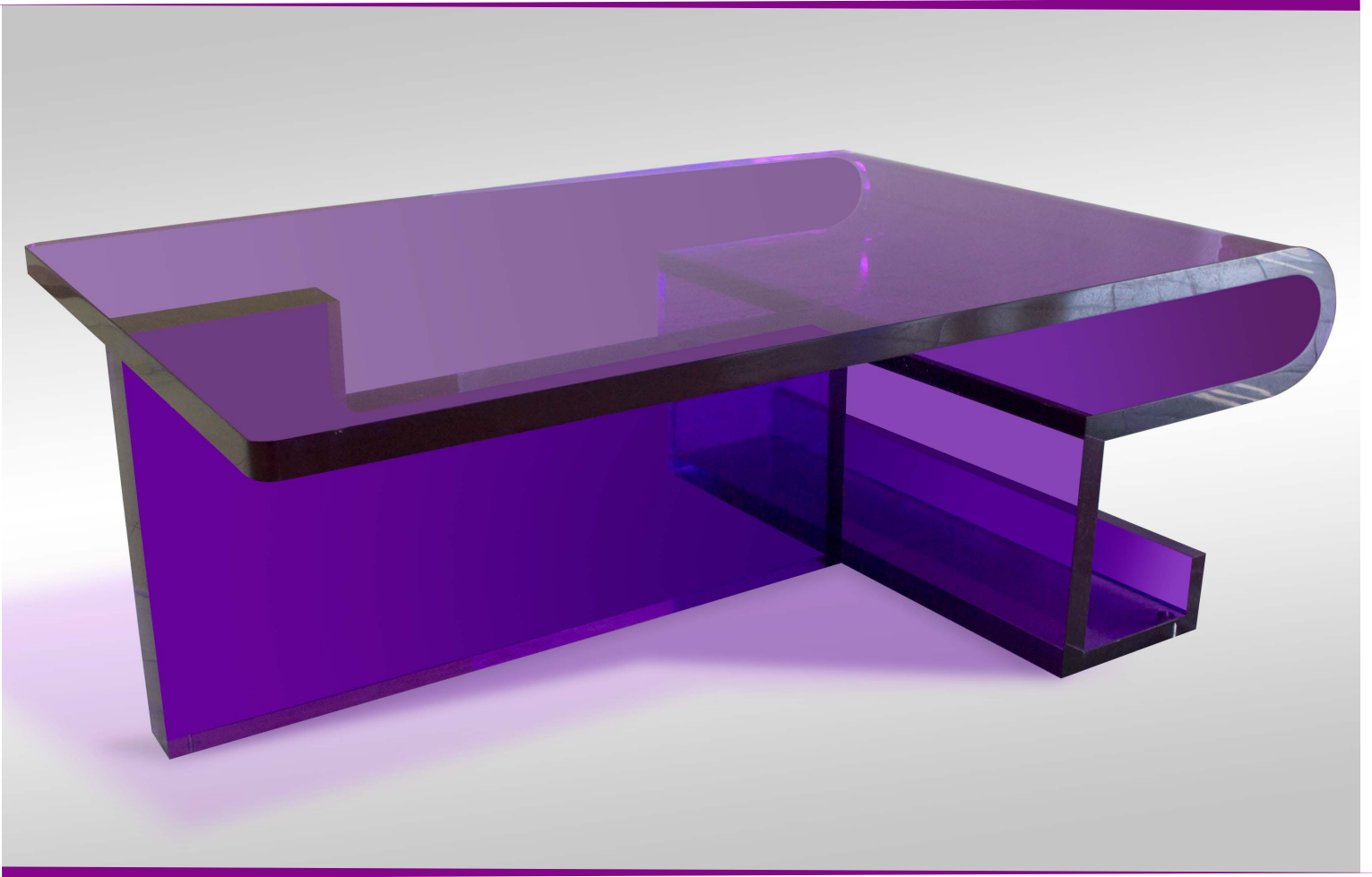
-Inert.



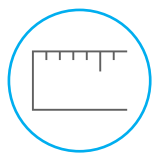
-Reparable.



-Easy to process & install.

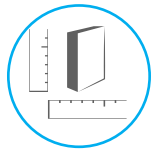


## PRODUCT RANGE



Thickness mm (in)		Size mm (in)
		48 x 96 (1220m X 2440m)
24.0mm	(0.944")	✓
32.0 mm	(1.250")	✓

# GUARANTEED SIZES & THICKNESSES



Thickness mm (in)	Size mm (in)
	48 x 96 (1220m X 2440m)
24.0mm (0.944")	+ / - 4 % 0.919" - 1.00"
32.0 mm (1.250")	+ / - 4 % 1.15" - 1.25"

# COLORS



## Solid colors



BZ - 205 White



Black



Translucent colors



BL - 040 Yellow



BL - 130 Rubi Red



BL - 129 Pomegranate Red



BL - 152 Citrus Orange



BL - 055 Green



BL - 057 Olive Green



BL - 067 Turquoise



BL - 026 Fuchsia



BL - 094 Purple



BL - 188 Cobalt Blue

# PHYSICAL AND MECHANICAL PROPERTIES



PROPERTY	TYPICAL VALUE (1)	TEST METHOD
<b>OPTICAL</b>		
Optical Refractive Index	1.49	ASTM D542
Haze (%)	2.0	ASTM D542
Light Transmission (%)		
0.100" - 0.197"	92	ASTM 1003
0.220" - 0.472"	90	ASTM 1003
Mayor a 1.25"	87	ASTM 1003
<b>MECHANICAL</b>		
Tensile Streght (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
<b>THERMAL</b>		
Forming Temperature (°C)	140 - 180	ASTMD 648
(°F)	284 - 356	ASTMD 648
Detection Temperature Under Load (264 psi) (°C)	91	
(°F)	196	
Maximum recommended continuous service temp (°C)	80	ASTM 1525
(°F)	176	ASTM 1525
<b>MISCELLANEOUS</b>		
Water absorption (24 hrs.-23°C-73°F) (%)	0.3%	ASTM 570

# CHEMICAL RESISTANCE



CHEMICAL	CODE	CHEMICAL	CODE
Acetic Acid (10%)	LR	Hydrogen Peroxid	R
Acetic Acid (glacial)	N	(3%) Isopropyl Alcohol	LR
Acetone	N	Kerosene	R
Ammonium Chloride	R	LacquerThinner	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 (1 0%)	N	Nitric Acid (100%)	N
Chromic Acid (conc.)	N	Phenol (5%)	N
Diethyl Ether	LR	Sodium Chloride	R
Diocyl Phthalate	LR	Sodium Hidroxide (10%)	R
Ethyl Alcohol (30%)	N	Sodium Hypochloride	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
Glycerine	R	Turpentine	R
Hexane	R	Water (distilled)	R
Hydrochloric Acid	R	Xilene	N

The code is 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 swelled, attacked, dissolved or damaged in some manner.

These values are typical and should not be taken as specification



# TECHNICAL SUPPORT



Plastiglas de México offers technical support to assist customers in setting the proper processing conditions for optimizing BICOLOR® sheet performance.

## LIMITED WARRANTY



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

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

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 of Mexico 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 México or one 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.**



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