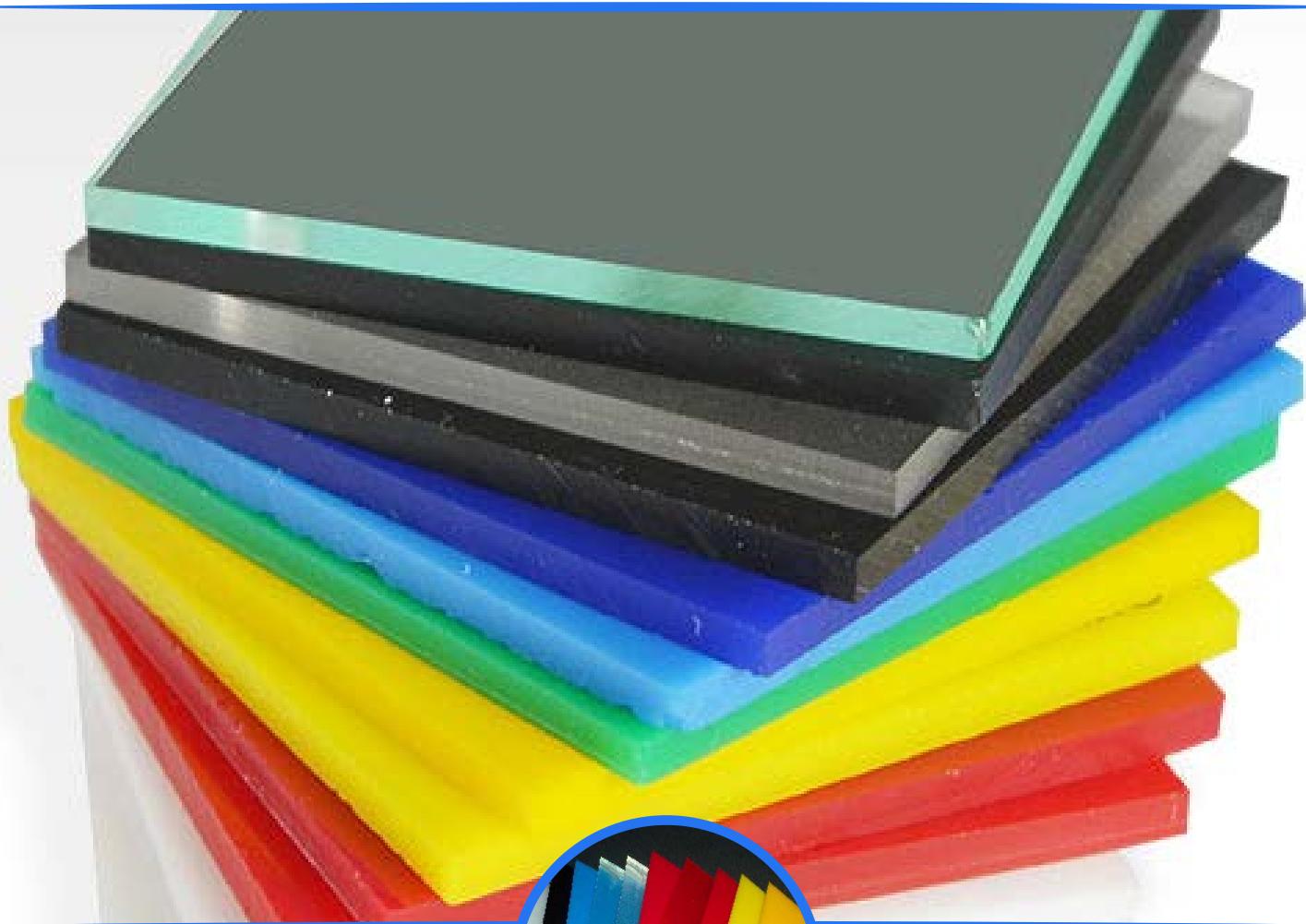


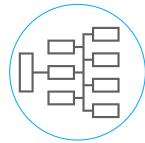
# **CHEMCAST® HI**

Cell Cast High Impact Acrylic Sheet

## **CHEMCAST®**



# INTRODUCTION



What makes Chemcast® acrylic high impact sheet notably different are the additional advantages compared to the same properties of the general purpose sheet. It has a better high impact strength, chemical resistance and ease fabrication with the same equipment used for the general purpose sheet. Ideal for sign industry. It can be exposed to outside weather conditions without significant changes in appearance.

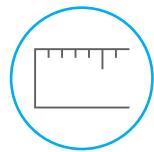
Chemcast high impact sheet is the only high quality acrylic sheet that can provide you with short runs capability and color selection to fit your specific needs.

Chemcast high impact sheet is the end product of a vertically integrated industry that has been manufacturing cell- cast acrylic sheets for over 30 years in Mexico; this includes full control of raw material and distribution each step of the way.

Quality control and product reliability are also an integrated process. Both are scientifically applied and carefully monitored throughout the entire process under the direction of highly competent employee groups. High impact sheet is available in a wide range of colors, sizes, and thicknesses.



# SHEET SIZES & THICKNESSES



## • SIZES

48"x72", 48"x96", 51"x100", 60"x96", 72"x96", and 75"x100".

## • THICKNESS

From 0.060" to 0.236"

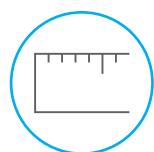
## • VERSATILITY

Due to their unique quality and flexibility Chemcast® high impact acrylic sheets are ideally suited to a wide range of applications: skylights, signs and P.O.P. displays.

## • PACKAGING AND DELIVERY

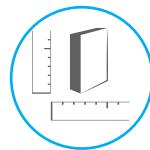
All Chemcast® high impact cell cast acrylic sheets are offered with masking paper and EVA film.

# SIZES AND THICKNESS (in x in)



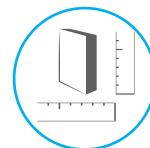
THICKNESS (in)		SIZE (in x in)
	48"X72"	48"X96" / 51"X100"60"X96" / 72"X96" / 75"X100"
0.060"	X	---
0.080"	X	---
0.100"	X	---
0.118"	X	X
0.157"	X	X
0.177"	---	X
0.220"	---	X
0.236"	X	X

## GUARANTEED THICKNESS



THICKNESS (in)	SIZE (in x in)	
	48"X72" / 48"X96" / 51"X100"	60"X96" / 72"X96" / 75"X100"
0.060"	0.032"-0.083"	---
0.080"	0.052"-0.102"	---
0.100"	0.071"-0.121"	0.078"-0.148"
0.118"	0.088"-0.138"	0.107"-0.186"
0.157"	0.122"-0.179"	0.134"-0.204"
0.177"	0.139"-0.199"	0.170"-0.249"
0.220"	0.175"-0.245"	0.186"-0.266"
0.236"	0.191"-0.261"	

## GUARANTEED SHEET SIZE



ESPESOR	NET SIZE GUARANTEED (in)	MAXIMUM OVER SIZE TRIMMED (in)
0.060" - 0.236"	48" X 72" 48" X 96" 51"X100" 60"X96" 72" X 96" 75" X 100"	48" X 72" 48" X 96" 51" X 100" 60" X 96" 72" X 96" 75" X 100"

Untrimmed size could be larger, but high guaranteed size remains the same.  
Please contact us for other sizes not included

# PHYSICAL AND MECHANICAL PROPERTIES



PROPERTY	TYPICAL VALUE (1)	TEST METHOD
<b>OPTICAL</b>		
Optical Refractive	1.49	ASTMD542
Ligh Transmision (Y.)		ASTMD 1003
<3.0 mm O 18'*	Mn. 90	
3.0 mm0.118*	Mn.88	
Haze		ASTM 1003
<3.0 mm0.118*	Mn. 10	
3.0 mm0.118*	Mn. 12	
<b>MECHANICAL</b>		
Specific weight (gr./cm3)	1.18	ASTMD792
Tensile Strength (psi)	6100	ASTMD638
Elongation at Rupture (%)	2.7	ASTMD638
Modulus of Elasticity(psi)	340,000	ASTMD798
Flexural strength (psi)	11000, 13000	ASTMD798
Izod impact Strength (ft lb/inch)	1.3	ASTMD256
Rockwell Hardness Cond. M	74	ASTMD785
Gardner impact (lb/inch)	30	ASTMD3029
<b>THERMAL</b>		
Forming Temperature (°C) (°F)	140 - 180 284 - 356	ASTMD 648 ASTMD 648
Detection Temperature Under Load (264 psi) (°C) (°F)	91 196	
Maximum recommended continuous service temp (°C) (°F)	80 176	ASTM 1525 ASTM 1525

All values referred lo 0.118" acrylic high impact sheet color clear. These values are typical and should not be taken as specifications.

# 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	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 (1 0%)	N	Nitric Acid (100%)	N
Chromic Acid (conc.)	N	Phenol (5%)	N
Diethyl Ether	LR	Sodium Chloride	R
Diocetyl Phthalate	LR	Sodium Hydroxide (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	Xylene	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

# PACKAGING (Sheets per pallet)



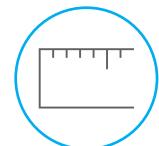
All the material is packaged in standard pallets, as shown in the following table. Shipments should be submitted to +/- 10% of the quantity ordered.

Based on the customer's order the standard colors will be packaged in rainbow pallets of the same size. Proper identification with pallet labels will clearly show the colors included on each rainbow pallet. Identification of sheets must be made with proper Chemcast HI label and Chemcast HI strips. The label must show the color, size and thickness of the sheet.

Thickness mm (in)	Size mm (in)		
	48" X 72"	48"X96" / 51"X100	60"X96" / 72"X96" / 75"X100"
0.060"	200	---	---
0.080"	180	---	---
0.100"	160	---	---
0.118"	140	115 / 110	50
0.157"	100	60	35
0.177"	---	60	35
0.220"	---	50	30
0.236"	70	50	25

## PRODUCT RANGE

### • STANDARD COLORS

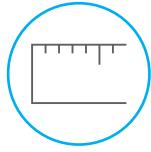


COLOR CODE	SHEET SIZE in (mm)	SHEET THICKNESS in (mm)
3030 Green	48" X 72" (1220 X 1830)	0.118" (3.0)
2108 Green		
2018Yellow	48" X 96" (1220 X 2440)	0.157" (4.0)
2037Yellow		
2114 Blue	51" X 100" (1295 X 2540)	0.177" (4.5)
2648 Blue		
2025 Black	60" X 96" (1529 X 2440)	0.220" (5.6)
7328White		
2157 Red	72"X 96" (1830 X 2440)	
2283 Red		
2793 Red	75" X 100" (1905 X 2540)	0.236" (6.0)

NOTE: Chemcast ® high impact colors have a slight variation compared with same general purpose colors. For colors reference please check using sample sets.

# PRODUCT RANGE

## • CLEAR



THICKNESS (in)	SIZES	
	48" X 72"	48"X96" / 51"X100" / 60"X96" / 72"X96" / 75"X100"
0.060"	X	---
0.080"	X	---
0.100"	X	---
0.118"	X	X
0.157"	X	X
0.177"	---	X
0.220"	---	X
0.236"	---	X

## • ADDITIONAL SERVICES

Sizes, thicknesses, or colors that are not included in this table are offered upon request considering the custom color and color matching policy.

## • COLOR MATCHING.

We offer color-matching service for your new designs and ideas. Certain minimum quantity and other requirements may apply depending on specific needs.

## • CUSTOM COLOR POLICY

Plastiglas de Mexico has experienced a spiraling cost to develop colors for potential orders that do not occur. These costs occur for both new custom colors and existing colors in thicknesses not offered previously. Accordingly, Plastiglas is joining other acrylic sheet suppliers enabling us to continue our excellent color matching program to be available to our customers at very competitive prices on a shared cost basis.

## • CUSTOM COLOR MATCHING

1. Plastiglas de Mexico will initially search its color bank for identical or very close matches for customer approval to avoid development costs.
2. If a satisfactory existing color is unavailable, we will reproduce the particular color. The color development process requires approximately 6 to 8 weeks lead-time depending on our backlog. To initiate the color development process the minimum volume required is of 2,500 pounds (one standard pallet +/-10% batch production). For subsequent orders of the same item, i.e., the same color in the identical sized thickness will require minimum batch volume and multiples according to chart A

## • ADDITIONAL SERVICES

3. If a special project calls for a minimum number of sheets, an overrun is likely.
4. Please refer to your current Custom Colors Price list for initial and subsequent orders.
5. Cancellation Policy. An approved matched custom color order cancellation is subject to a 100% cancellation charge.

## • COLOR DEVELOPMENT

Each new thickness and/or size with an existing color is in effect a new custom color requiring different volumes of colorants to achieve the same appearance, thus incurring additional development costs. The primary cost is in demonstrating that the item can actually be produced outside the color laboratory by the factory. Our policy is intended to avoid wasted investment on speculative inquiries that have a high probability of not occurring.

1) Minimum volume for a color that requires factory demonstration is 2,500 pounds with production of +/- 10% batch production. Subsequent orders for the same item, i.e. the same color in the identical size and thickness will require minimum batch volume and multiples according to following chart A:

**CHART "A"**

SIZE & THICKNESS	48" X 72"	48"X96" / 51"X100"	60"X96" / 72"X96" / 75"X100"
0.060"- 0.236"	40 (20)	36 (18)	26 (13)

\*Number in parenthesis indicates the number of sheets per batch. This helps you to adjust your minimum to order.

Example: for one order of 48"x96" 0.118" it requires a minimum volume of 36, 54, 72 pieces and subsequent multiples.

The variation of +/- 10% for this example will be:

36 pieces 32 - 40 sheets  
54 pieces 49 - 60 sheets  
72 pieces 65 - 79 sheets etc.

2) Prices:

- a) For an initial order of an existing color development starting from 0.060" -.236" your price would be "regular color price" as per your current price list.
- b) For an initial order of an existing color development from thickness .354" - 1.250" your price would be considered as a "custom color" as per your current price list.

3) Cancellation Policy. An approved and demonstrated color order cancellation is subject to a 100% Cancellation charge.



**IMPORTANT:** Plastiglas de México, S.A. de C.V. has prepared this document to provide information about the product but does not assume any legal responsibility for the suggestions and data provided which are based in information true and offered in good will without warranty.

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