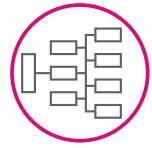


Acrylic Sheet  
CELL CAST  
pre m i u m

**CHEMCAST®**



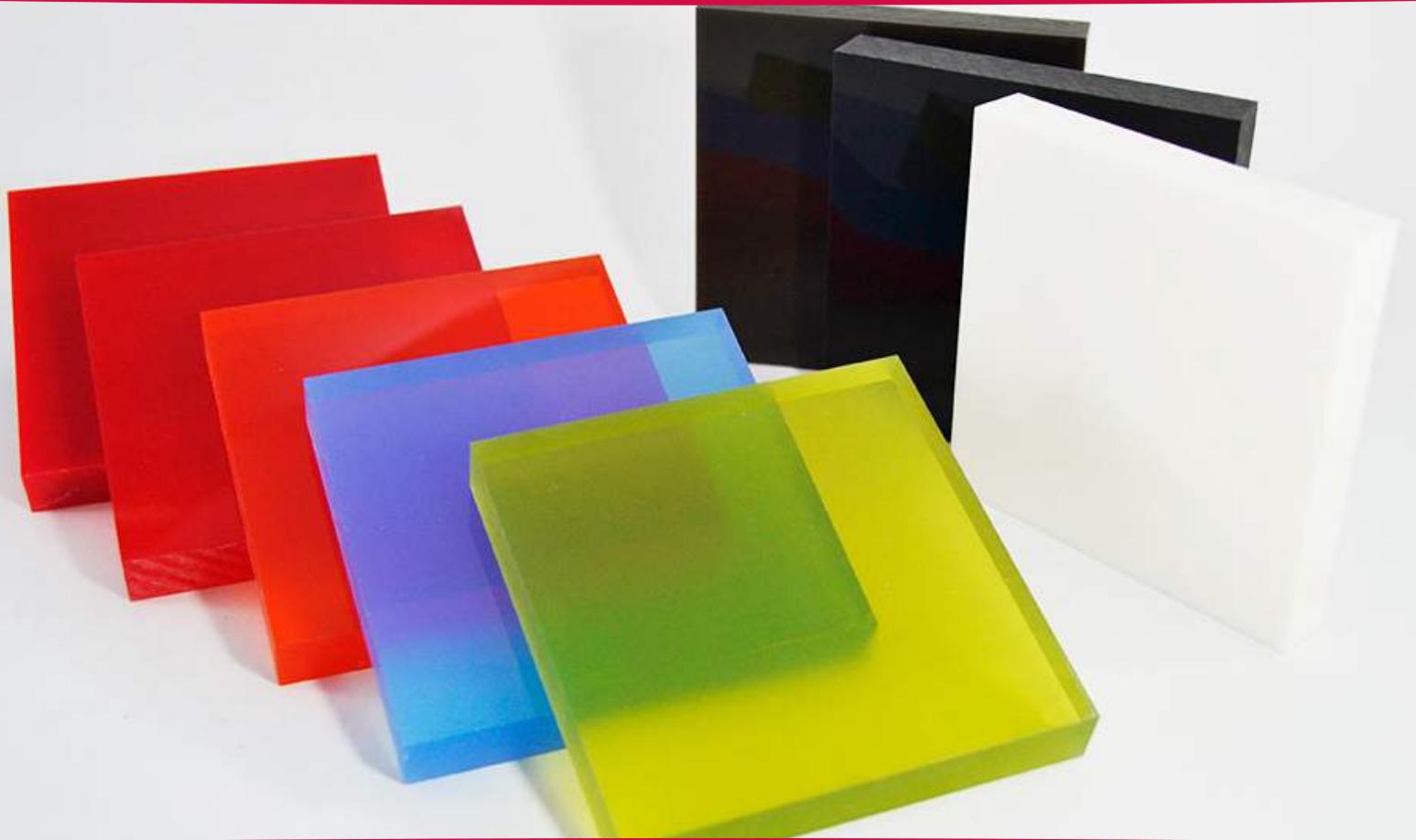
# INTRODUCTION



**FG®** is an innovating and flexible option for the most demanding design and production requirements.

**FG®** is a modified acrylic sheet with impact resistance and superior screw retention. The product allows perfect thermoforming keeping symmetry and color in the final piece.

**FG®** by Plastiglas was designed to avoid diminishes and waste in comparison to other acrylic products due to its flexibility, its high resistance to compressions and contractions and its ease to be screwed without cracking.



# APPLICATIONS AND PRODUCT RANGE



- FG®** is recommended for indoor application only.
- Kitchen Covers and furniture.
- Kitchen Cabinets.
- Doors and shelves.
- Commercial and Institutional Furniture.
- POP Displays.
- Commercial and Residential decoration.
- Partitions.

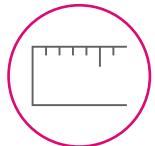
# BENEFITS



	-Superior hinge and screw retention.
	-High impact resistance.
	-Environmental harmonizing.
	-Resistant to moisture and immersion.
	-Hygienic.
	-Outstanding screw, hinges and metallic elements retention.
	-Thermoformable.
	-Easy cutting and routing.



## PRODUCT RANGE



### Size & Thickness

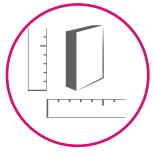
48" X 96" & 48" x 72" of 0.590" \*

Available in 2 glossy sides, one side glossy and one side matte or two sides matte.

\*0.472" & 0.708" available upon request.

Other thicknesses and sizes available upon customer's request. Minimum batches may apply.

# GUARANTEED SIZES & THICKNESS



Sizes	Thickness
48"x96" 48"x96" (2440mm x 1220mm)	48"x96" & 48"x72"
48"x72" 48"x72" (1830mm x 1220mm)	0.590" +/- 10%

# COLORS



## Solid colors



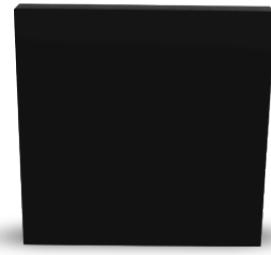
L- 308 Relax White



L- 136 Sensual Red



L - 332 Wenge



Elegant Black

## Translucent colors



L - 189 Sky Blue



L - 134 Passion Red



L - 152 Orange



L - 335 Olive Green

## Trend colors



L - 481 Cobalt Blue



L - 482 Navy Blue



L - 473 Navy Gray



L - 474 Creta



L - 476 Oxford Gray



L - 475 Mustard



L - 480 Grape



L - 477 Burgundy



L - 483 Tie



L - 479 Purple



L - 478 Marron

# PHYSICAL AND MECHANICAL PROPERTIES



PROPERTY	TYPICAL VALUE (1)	TEST METHOD
<b>MECHANICAL</b>		
Specific Gravity (gr/cm3)	1.18	ASTM D792
Tensile Strength (psi)	6100	ASTM D638
Elongation at Rupture (%)	2.7	ASTM D638
Modulus of Elasticity (psi)	340,000	ASTM D798
Flexural Strength (psi)	11000-13000	ASTM D798
Impact Resistance Izod (ft lb/inch)	1.3	ASTM D256
Rockwell Hardness	74	ASTM D785
Impact Resistance Gardner (lb/inch)	65	ASTM D3029
<b>THERMAL</b>		
Forming Temperature (°C)	140 - 180	ASTM D648
Deflection Temperature (°C) (Under Load of 264 psi)	85	ASTM D648
Maximum recommended continuous Service temperature	75	ASTM D1525

# 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 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 FG® sheet performance.

## LIMITED WARRANTY



Plastiglas de Mexico warrants its FG® 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 FG® 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 FG® 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 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 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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