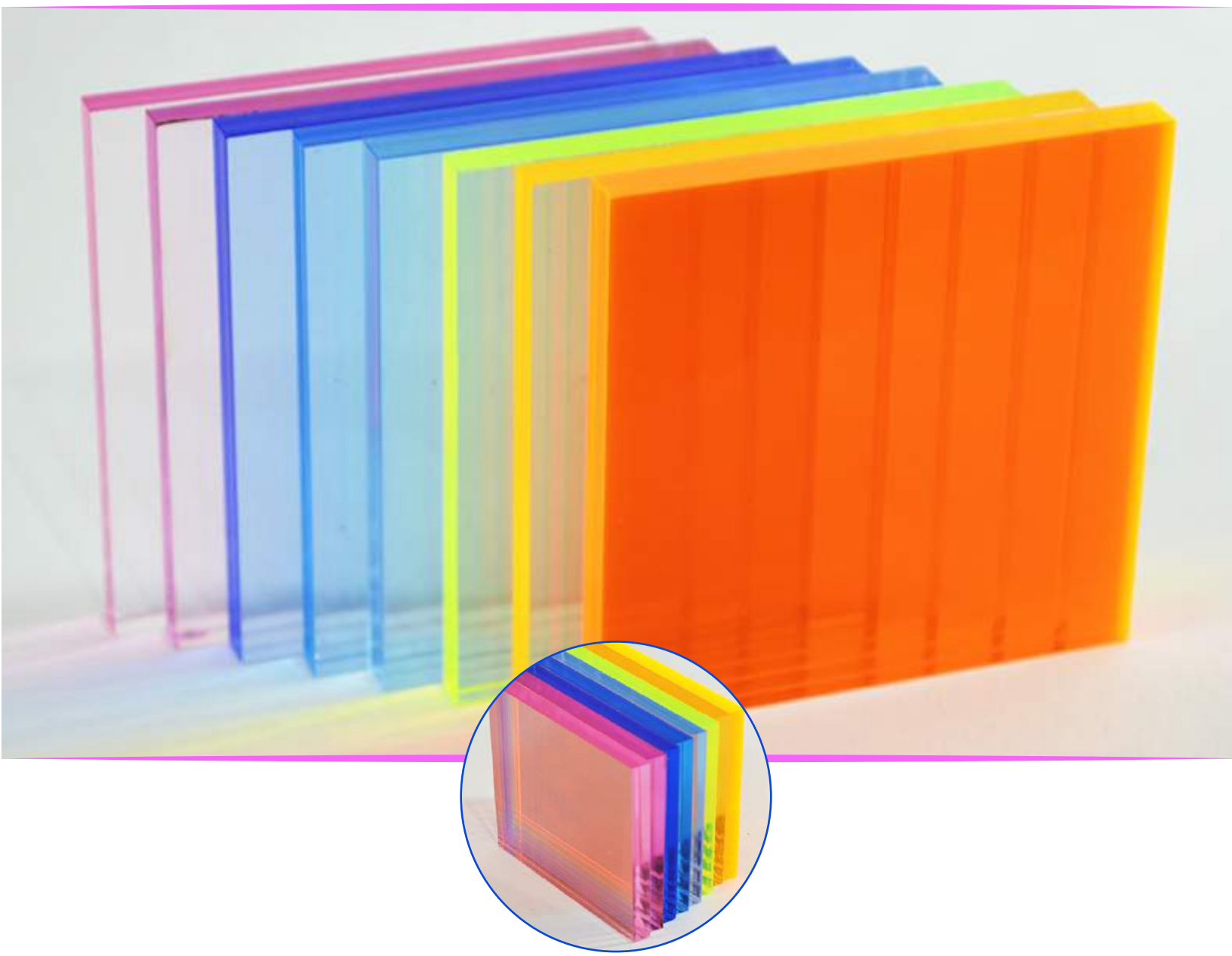
Glow
P.o.P.

CHEMCAST®



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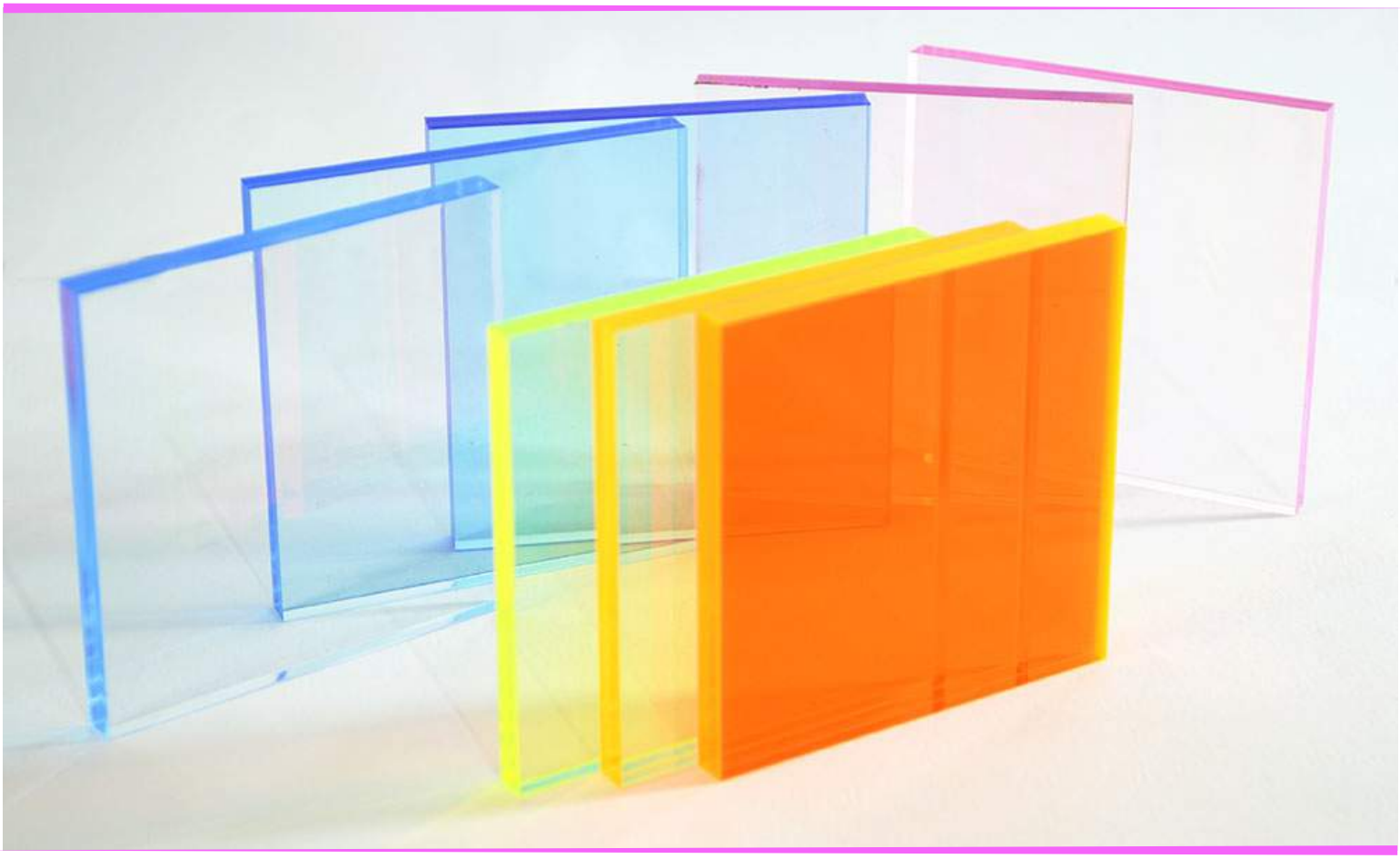
# INTRODUCTION

**CHEMCAST Glow** is a high quality cell cast acrylic sheet that allows designers, architects and interior designers the freedom to create environments and items that highlight providing pleasant feelings due to their brilliant colors, smooth and nice appearance.

The name of this product line refers to the wide range of applications that can be covered in different market segments like POP displays and interior signage.



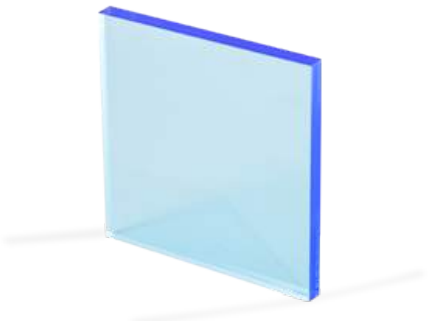
# PACKAGING AND DELIVERY

Glow acrylic sheet is offered with protection of paper masking or film on both sides of the sheet.

# COLORS

L-091 Alba blue

L-150 Zenith blue



L-114 Twilight blue

L-025 Chic pink

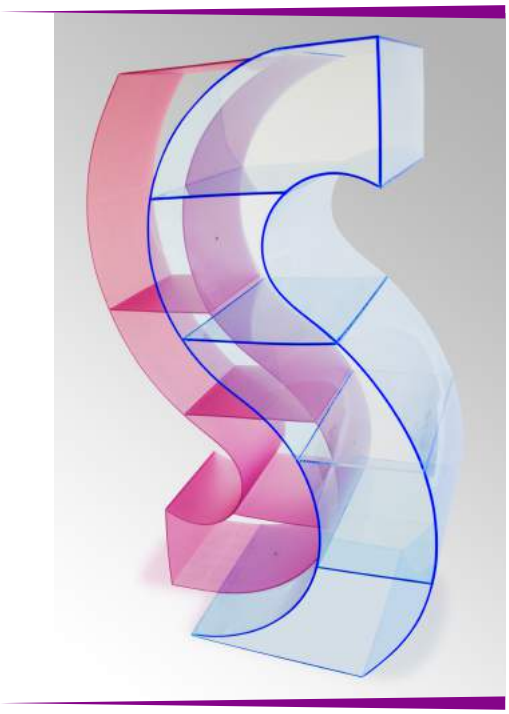
L-06 Lite Rose

L-158 Plasma Orange

L-033 Activity Green



L-106 Sunset Yellow



## SHEET SIZE AND THICKNESS

| Thickness | Sheet Size |
|---|---|
| 0.118″ | 48″x96″ |

## THCIKNESS WARRANTY

| Thickness | Sheet Size |
|---|---|
| 0.118″ | 48″x96″ |
| | 0.088″ – 0.138″ |

For any requirement of thickness or sheet size not included in this table, please contact Plastiglas de Mexico, S.A. de C.V.

# PHYSICALL AND MECHANICAL PROPERTIES

| PROPERTY | VALUE (*) | TEST METHOD |
|---|---|---|
| **OPTICAL** | | |
| Refraction Index | 1.49 | ASTM 542 |
| Light transmission (%) | | ASTM 1003 |
| < 0.177" | 92 | |
| > 0.177" | 90 | |
| Haze (%) | 2.0 | ASTM 1003 |
| **MECHANICAL** | | |
| Specific Gravity | 1.18 | ASTMD792 |
| Tensile Strength (psi) | 9600 | ASTMD638 |
| Elongation at Rupture (%) | 4.5 | ASTMD638 |
| Modulus of Elasticity (psi) | 425,000 | ASTMD798 |
| Flexural Strength (psi) | 15000-16000 | ASTMD798 |
| Impact Resistance IZOD(ft lb/) | 0.4 - 0.5 | ASTMD256 |
| Rockwell Hardness | M 90 - 100 | ASTMD785 |
| Barcol Hardness | 50 | ASTMD2583 |
| **THERMAL** | | |
| Forming Temperature (°C) | 140 - 180 | |
| (°F) | 284 - 356 | |
| Deflection Temperature | | ASTMD 648 |
| Under Load (264 psi) (°C) | 91 | |
| (°F) | 196 | |
| Maximum recommended continuous | | |
| service temperature (°C) | 80 | |
| (°F) | 176 | |
| **MISCELLANEOUS** | | |
| ·Water absorption (24 hrs.-23°C-73°F) (%) | 0.3% | ASTM 570 |

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

# CHEMICAL RESISTANCE

| CHEMICAL | CODE |
|---|---|
| Ammonia chloride<br>Ammonia hydroxide<br>Calcium chloride<br>Ethylene glycol<br>Glycerin<br>Hexane<br>Hydrochloric acid<br>Hydrogen peroxide (3%)<br>Kerosene<br>Acid nitric (10%)<br>Sodium chloride<br>Sodium hydroxide (10%)<br>Sodium hypochlorite<br>Turpentine<br>Distilled water | R |
| Dioctyl- phthalate<br>Gasoline<br>Isopropyl alcohol<br>Methyl alcohol (30%)<br>Acetic acid (glacial)<br>Acetone<br>Benzene<br>Carbon tetrachloride | RL |
| Acid chromic (10%)<br>Acid chromic (conc.)<br>Ethyl alcohol (30%)<br>Ethyl alcohol (95%)<br>Dichloroethylene<br>Thinner<br>Methyl alcohol (100%)<br>Methyl ethyl ketone<br>Methylene chloride<br>Acid nitric (100%)<br>Phenol (5%)<br>Acid sulfuric (3%)<br>Acid sulfuric (conc.)<br>Toluene<br>Trichloroethylene<br>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 either swelled, attacked, dissolved or damaged in some manner.

These values are typical and should not be taken as specification.

# TRANSMITTANCE

| Color Code | % Transmittance @ 540 nm * | Application | Category of Product |
|---|---|---|---|
| L-033 | 92.00 | Interior | General Purpose |
| L-091 | 90.00 | Interior | |
| L-06 | 88.00 | Interior | |
| L-150 | 87.00 | Interior | |
| L-106 | 88.00 | Interior | |
| L-025 | 85.00 | Interior | |
| L-114 | 78.00 | Interior | |
| L-158 | 14.00 | Interior | |

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CHEMCAST®

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