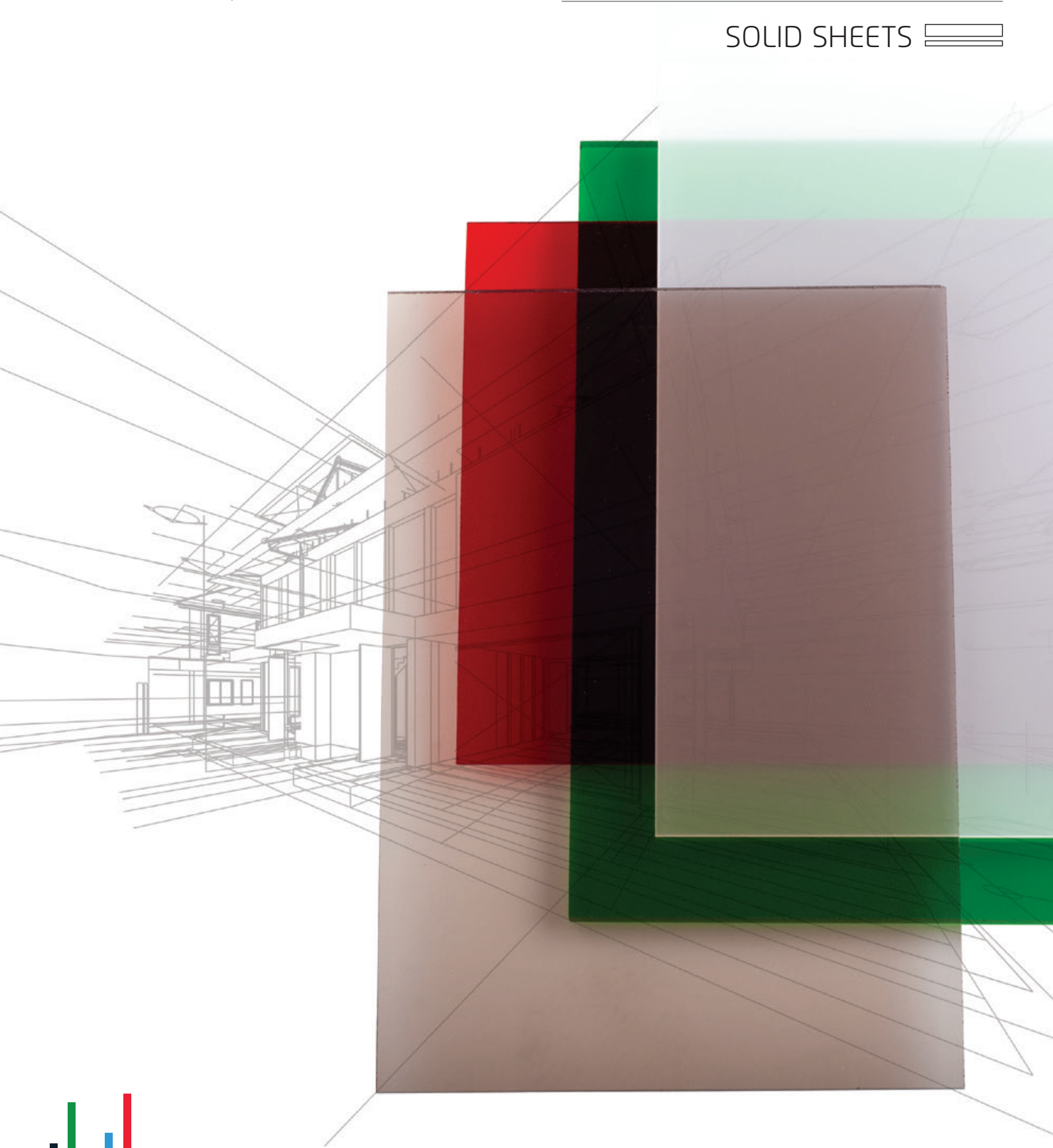


# Plazcryn Plazcast

SOLID PMMA SHEETS

SOLID SHEETS 





## PLAZCRYL/PLAZCAST HIGH QUALITY ACRYLIC SHEETS

Bright clarity, excellent transparency and easy to thermoform, The PLAZCRYL extruded and PLAZCAST PMMA sheets provide long-life UV resistant products for visual communication, architectural and interior design purposes.

Also great for shopping center shelves, point-of-sale units for cosmetics, fashion and medical products, back-lit signage and other display purposes.

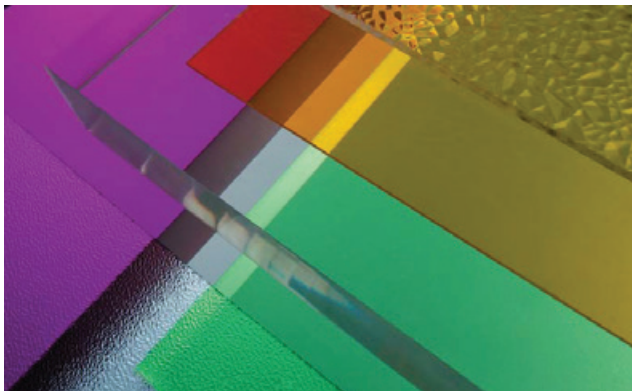
The PLAZCRYL Super (high impact PMMA) sheet is appropriate for vehicle number-plates, lighting and other applications where good mechanical properties are required.

## Applications

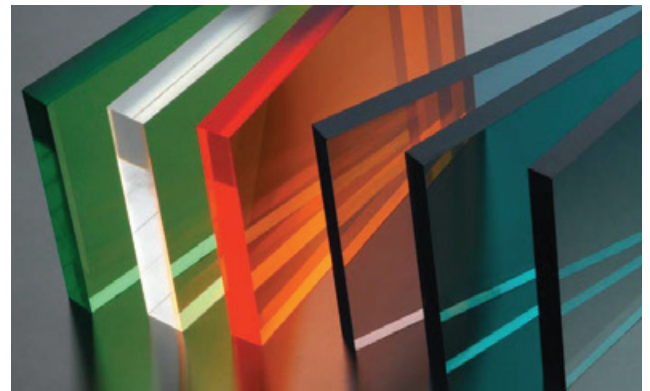
- Glazing
- Curtain walls
- Noise reduction barriers
- Lighting / Illumination
- Sky light / Domes
- Art design
- POP display stands
- Interior decoration
- Furniture
- Signage
- Automotive

## Features and Benefits

- Highly transparent, 92% light transmission
- Low haze <1%
- Hard surface
- Excellent colour stability
- 10 year limited warranty
- Proved weather resistance
- Easily thermoformed and machined
- Easily glue bonded
- Cold curving capability
- Less half the weight of glass
- Recycle 100% after use
- No carcinogenic or hazardous substances
- REACH certification
- Food approved
- Friendly to the environment
- Non toxics fumes emitted in fire
- Fires can be easily extinguished with water
- Easily polished and reshape



Plazcryl



Plazcast

# PLAZCRYL High Quality Extruded Acrylic Sheets

General Properties	Method	Units	Plazcryl R7000	Plazcryl Super		
				R7700	R7500	R7600
<b>General</b>						
Density	ISO 1183	g/cm <sup>3</sup>	1.19	1.19	1.18	1.16
Water absorption	ISO 62 (1)	%	0.3	0.3	0.3	0.3
Flammability	UL-94 class	class	HB	HB	HB	HB
<b>Optical</b>						
Light transmission (clear sheet)	ASTM D1003	%	92	92	92	91
Haze (clear sheet)	ASTM D1002	%	<1	<1	<1	<1
Refractive index (clear sheet)	ISO 489		1.49	1.49	1.49	1.49
<b>Mechanical</b>						
Tensile Strength	ISO 527-2	MPa	72	57	50	40
Elongation at break	ISO 527-2	%	4	22	30	40
Tensile Modulus	ISO 527-2	MPa	3300	2450	2100	1700
Flexural Strength	ISO 178	MPa	106	88	79	62
Flexural Modulus	ISO 178	MPa	3350	2470	2100	1800
Rockwell hardness		M-scale	95	77	68	44
Impact resistance - Izod notched	ISO 180	kJ/m <sup>2</sup>	1.5	4	5	6.3
<b>Thermal</b>						
Temp. of deflection under load 1.8 Mpa	ISO 75-1	°C	95	92	90	83
Coefficient of linear thermal expansion (CLTE)	ISO 11359	mm/(m x 1/°C)	0.065	0.07	0.1	0.11
Vicat softening temperature (50 N)	ISO 306	°C	103	99	97	90
Recommended Continuous Service Temperature		°C	70	65	63	62
Recommended Maximum Temperature / Short time		°C	90	86	81	74

## DIMENSIONS

Thickness (mm): 0.7 to 30  
 Widths (mm): 1000, 1220, 2050  
 Length (mm): 600-6000  
 All sheets are also available cut to size, according to customer requirements.

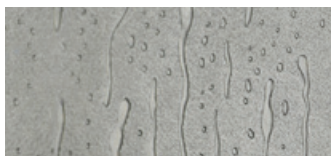
## GRADES

PLAZCRYL Super - Hi Impact grades  
 PLAZCRYL UV Block - blocks U.V. from 380nm  
 PLAZCRYL IR Solar - blocks IR radiation  
 PLAZCRYL Acoustic - noise reducing  
 PLAZCRYL TOP (Thin Optical Sheets)  
 PLAZCRYL Anti glare  
 PLAZCRYL Mirror  
 ACRYLED - for LED illumination

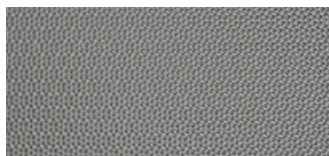
## COLORS

Plazcryl sheets are naturally colorless and exceptionally clear, however they can be pigmented to obtain a wide range of tints and colors. They are available transparent and in a wide range of translucent colors, opaque colors, opals and diffusers. Plazcryl colored sheets maintain the same light transmission percentages regardless of thickness (except for opal). For a list of updated colors please contact your regional supplier.

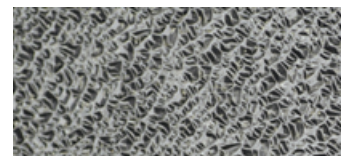
## EMBOSSING PATTERNS



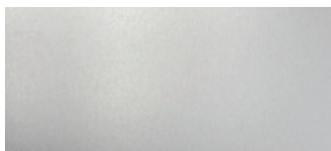
Aqua



Pinspot



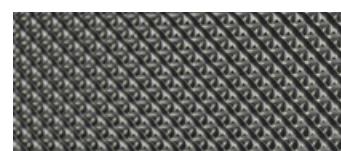
Cracked Ice



Non Reflective



G-Tech



K-12

# PLAZCAST High Quality CAST Acrylic Sheets

Typical Properties	Method	Units	Value
<b>General</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.2
Water absorption	ISO 62 (1)	%	0.3
Flammability	UL94	class	HB
<b>Optical</b>			
Light transmission (clear sheet)	ASTM D1003	%	92
Haze (clear sheet)	ASTM D1002	%	<1
Refractive index (clear sheet)	ISO 489		1.49
<b>Mechanical</b>			
Tensile Strength	ISO 527-2	MPa	70
Elongation at break	ISO 527-2	%	4
Tensile Modulus	ISO 527-2	MPa	3300
Flexural Strength	ISO 178	MPa	104
Flexural Modulus	ISO 178	MPa	3000
Rockwell hardness		M-scale	100
Impact resistance (Izod notched)	ISO 180/1A	kJ/m <sup>2</sup>	1.5
<b>Thermal</b>			
Residual Shrinkage (internal stress)		%	<2
Temp. of deflection under load 1.8 Mpa	ISO 75-1	°C	105
Coefficient of linear thermal expansion (CLTE)	ISO 11359	mm/(m x 1/°C)	0.07
Vicat softening temperature (50 N)	ISO 306	°C	105-112
Recommended Continuous Service Temperature		°C	82

## DIMENSIONS

Thickness (mm): 3 to 6:  
3050x2050 mm  
Thickness (mm): 8 to 35:  
3050x2030 mm  
Thickness (mm): 40 to 60:  
3000x2000 mm

## GRADES

Satin / Double Satin,  
UV Block, UV-Open,  
Chemical Resist, Sanitary,  
Fluorescent, LED, Dual  
Color, Metal, SMR

## COLORS

Plazcast sheets are naturally colorless and exceptionally clear, however they can be pigmented to obtain a wide range of tints and colors. They are available clear and in a wide range of transparent, translucent, opaque colors, opals and diffusers. Plazcast colored sheets maintain the same light transmission percentages regardless of thickness (except for special types of opals, diffusers and LEDs). Machining the sheet to a reduced thickness will increase the light transmission and may change the color shade of the reduced area. For a list of updated colors please contact your regional supplier.





## THE PLAZIT-POLYGAL GROUP



The Plazit-Polygal Group is a world leading manufacturer and supplier of plastic sheets, bringing together expert professionals committed to providing high quality, reliable products and solutions designed to meet customer needs. Both Plazit and Polygal started to manufacture extruded plastics sheets in 1973. Plazit began as a producer of extruded solid sheets, first from PolyMethyl Methacrylate (PMMA) and later from Polycarbonate (PC), while Polygal was the world pioneer in the manufacturing of PC multi-wall sheets.

From modest beginnings, both companies expanded their operations worldwide and grew to become world leaders in the plastic sheeting market. In 2010 Plazit acquired in Spain a PMMA cast production facility (today Plazit-Polygal Iberica) adding cast PMMA sheets to its range of products. In 2011 Plazit and Polygal merged to form the Plazit-Polygal Group. What started 40 years ago as small rural community workshops, has become a worldwide international group.

Today, The Plazit-Polygal Group's production facilities are spread around the globe (Israel, USA, Chile, Bulgaria, Russia and Spain) with more than 750 employees from different countries. A team of highly skilled professionals and modern laboratory facilities provide 24/7 customer technical support, engage in continuous product and process improvement, research and development of new products. Plazit-Polygal Group is a member of the CEFIC (European Chemical Industry Council), which groups the leading PMMA producers in the world, of EPSE (European Polycarbonate Sheet Extrusion) which groups the leading Polycarbonate extrusion producers in the world and of EPDA (European Plastics Distribution Association). Plazit-Polygal is certified ISO9001.



DISCLAIMER: The data in this advertisement are provided in good faith and constitute general information without commitment and no warranty is given or implied. Our plastics products are a combustible thermoplastic that complies with various international standards, as customary in each country. Avoid exposure to excessive heat or aromatic cleaning solvent. Normal fire precautions should be taken to protect against combustion.

**Plazit Polygal Group**

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