

# PLAZCRYL EXTRUDED POLYMETHYL METHACRYLATE (PMMA) SOLID SHEETS

Bright clarity, excellent transparency and easy to thermoform. The PLAZCRYL sheets provide long-life UV resistant products for a broad range of applications.

Sheets are produced according to ISO 7823-2:2003 standard.

## APPLICATIONS



Glazing



Curtain walls and Interior decoration



Noise reduction barriers



Lighting, Illumination and signage



Sky light / Domes



Art design



POS display stands



Automotive

## MAIN ADVANTAGES

- Highly transparent, 92% light transmission
- Low haze <1%
- Half weight of glass
- Bright and hard surface
- Excellent color stability
- Proved weather resistance. Life-long UV-resistant.
- 10-year limited warranty
- Easily thermoformed, machined, polished and reshaped
- Easily glue bonded
- Cold curving capability
- No carcinogenic or hazardous substances
- Non-toxic fumes emitted in fire, fires can be easily extinguished with water
- Environment friendly-100% recyclable
- REACH and RoHS declarations

Typical Properties	Method	Units	Plazcryl (R7000)
<b>General</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.19
Water Absorption	ISO 62 (1)	%	0.3
Flammability (thickness dependent)	UL94		HB
Flammability (2-5 mm)	Euroclass EN13501		E
<b>Mechanical</b>			
Tensile Strength	ISO 527-2	MPa	72
Elongation at break	ISO 527-2	%	4
Tensile Modulus	ISO 527-2	MPa	3300
Flexural Strength	ISO 178	MPa	106
Flexural Modulus	ISO 178	MPa	3350
Compressive Strength	ISO 604	MPa	117
Rockwell Hardness	M scale		95
Impact Resistance (Charpy unnotched)	ISO 179/1fu	kJ/m <sup>2</sup>	15
Impact Resistance (Charpy notched)	ISO 179/1eA	kJ/m <sup>2</sup>	2
Impact Resistance (Izod notched)	ISO 180/1A	kJ/m <sup>2</sup>	1.5
<b>Optical</b>			
Refractive Index	ISO 489		1.49
Light Transmission (thickness dependent)	ASTM D1003	%	92
Haze (3mm transparent sheet)	ASTM D1003	%	< 1
<b>Thermal</b>			
Vicat Softening Temp.(50N)	ISO 306	°C	105
Heat Deflection Temp. (1.82 MPa)	ISO 75-1	°C	95
Coeff. of Linear Thermal Expansion (0-500C)	ISO 11359-2	µm/m°C	65
Thermal Conductivity	ASTM C177	W/mK	0.19
Maximum Continuous Service Temp.		°C	70
Maximum Short Time Service Temp.		°C	90
Minimum Temp.		°C	-40
<b>Electrical</b>			
Dielectric Constant (50Hz)	DIN 53483	kV/mm	20-25
Dissipation Factor tanδ (100Hz)	DIN 53483		3.7
Dissipation Factor tanδ (1MHz)	DIN 53483		0.04
Surface Resistivity	IEC 60093	Ohm	>10 <sup>14</sup>
Volume Resistivity	IEC 60093	Ohm.cm	>10 <sup>15</sup>

Please note that the technical values given in the table are typical values for guidance and they are subjected to certain variability.

## DIMENSIONS

**Thickness** 0.70 – 30.0 mm

**Width** 1000, 1220, 1250 and 2050 mm

**Length** 600 – 6000 mm

All sheets are also available cut to size, according to customer requirements.

### Colors

Transparent, white opaque, opal, diffusers, black, grey, green, brown, blue and red.

### Grades

Plazcryn UV Block – Blocks 98% of the UV light from 300-380 nm

Plazcryn IR Solar – Reflects the undesirable hot IR radiation while allowing visible light to pass through.

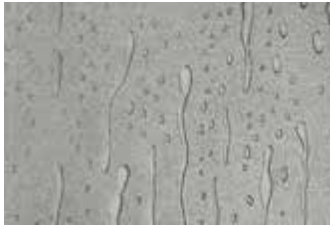
Plazcryn MRT - Plazcryn clear sheets specially designed for optical applications. Limited to specific thicknesses and sizes.

Plazcryn LED - The sheets are the most economical device in the field of illumination.

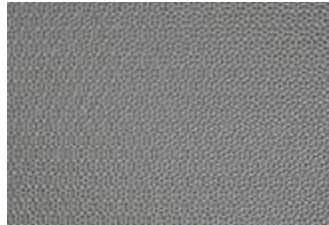
Plazcryn AG - The sheets are extruded sheets with a hard and anti-glare coating.

## EMBOSSING PATTERNS

Plazcryn sheets are available with different embossing patterns (limited to specific thicknesses and sizes)



Aqua



Pinspot



Cracked Ice



Non Reflective



G-Tech



K-12

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 and national international standards, as customary in each country. Avoid exposure to excessive heat or aromatic cleaning solvents. Normal fire precautions should be taken to protect against combustion.

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