

# Acrylic

Standard Cast Acrylic Sheet



Cebelio

[www.cebelio.co.nz](http://www.cebelio.co.nz)

## Description

Acrylic sheet, commonly known as Plexiglas Acrylic, has excellent clarity, rigidity and hardness making it one of our more popular products.

This extremely versatile product is used in a variety of areas from signage and fabrication right through to building and glazing situations (pergola roofing, windbreaks, balustrades).

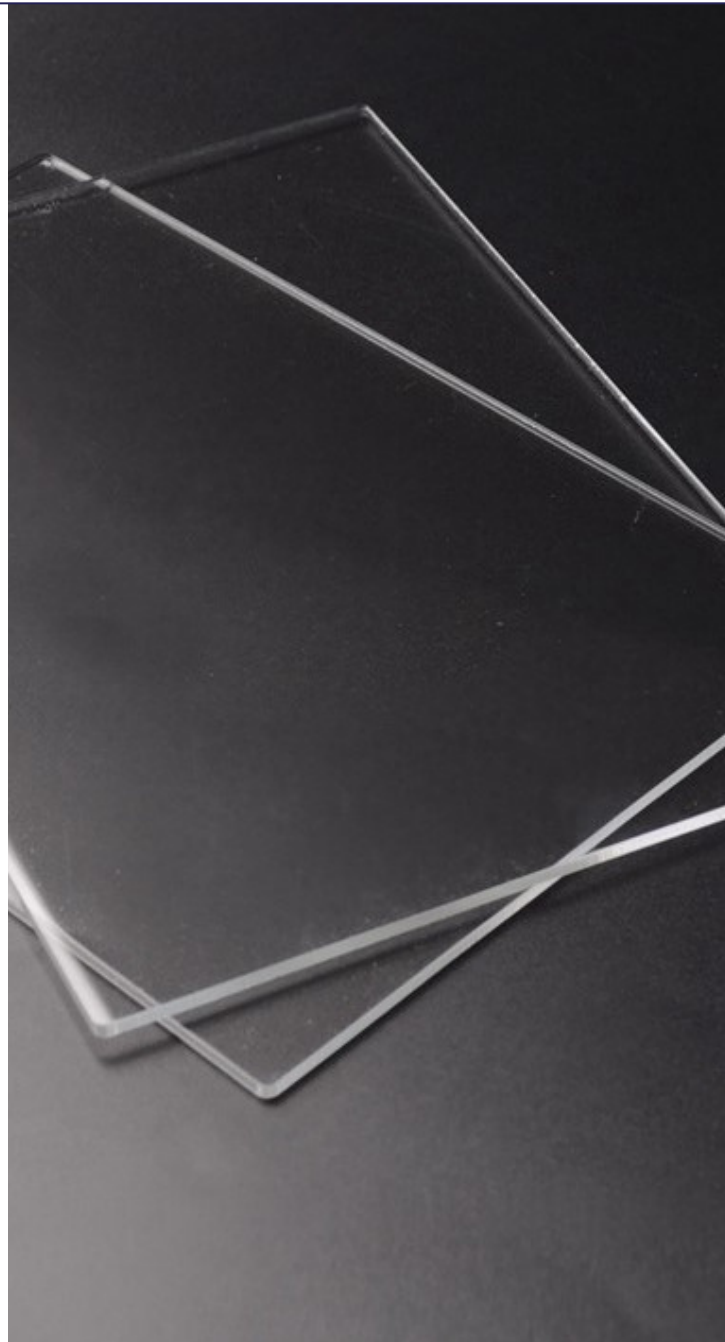
## Uses

Acrylic is used widely for both indoor and outdoor uses. Common applications include:

- Glazing
- Signage
- Retail displays
- Menu/Brochure holders
- Model Display cases
- Furniture

## Basic info

- ✓ Resilient, Easy to Handle and Fabricate
- ✓ Clearer than glass
- ✓ Lightweight
- ✓ Weather Proof & UV Stable
- ✓ Transmits 92% of Light
- ✓ Superior, long term material strength



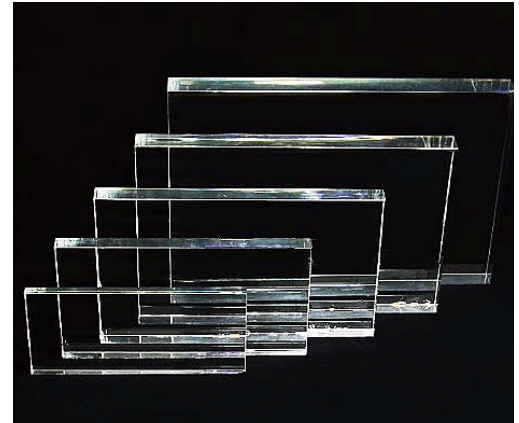


## Acrylic Data

### Availability

Gauges	Finish	Colours (not available for all gauges)	Sheet sizes (not available for all gauges)
2.0mm,3.0mm, 4.5mm,6.0mm, 8.0mm,10.0mm, 12mm,15mm, 20mm, 25.0mm	Cast Mirror (3.0mm only) Frosted (3.0mm and 6.0mm only)	Clear, Black, White, Opal, Tinted colours, Solid colours,	2440 x 1220mm, 2490 x 1880 (clear only) 3050 x 2030mm (clear only)

Cebelio carries a large range of acrylic however, we are able to source a wide range of colours, thicknesses and finishes by request.



### Technical Properties

Properties	Unit	
Specific Gravity	-	1.19
Hardness	-	HNC-96
Water Absorption	%	0.35
Tensile strength at yield	Kg/cm <sup>2</sup>	709
Tensile strength at break	Kg/cm <sup>2</sup>	696
Tensile modulus	Kg/cm <sup>2</sup>	29,532
Elongation at break	%	8
Flexural Strength	Kg/cm <sup>2</sup>	1.052
Flexural Modulus	Kg/cm <sup>2</sup>	31,264
Impact Strength	Kg/cm <sup>2</sup>	1.1
Shear Strength	Kg/cm <sup>2</sup>	600-650
Transmission Full Rays	%	93.3
Transmission Parallel Rays	%	HAZE=0.27
Specific Heat	Cal/g/°C	0.35
Heat Distortion Temperature (4.6kg/cm)	°C	100
Coefficient of Heat conductivity	Cal/s.cm <sup>2</sup>	4.5 X 10 <sup>-4</sup>
Coefficient of Linear Expansion	Cm/cm/°C	6.5 X 10 <sup>-5</sup>
Ultimate Temperature of Continuous Operation	°C	60 – 90
Flammability	Mm/min	33
Surface Resistivity at 28°C	Ohm	>1016
Volume Resistivity	Ohm cm	> 10-15
Thermoforming Ranges	°C	140 – 180
Dielectric Strength	Kv/Mm	20

#### Contact

##### Physical

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\*The results of this Datasheet are just for information or comparison purposes only and should be used as a guide. This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. Cebelio Holdings LTD. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.