



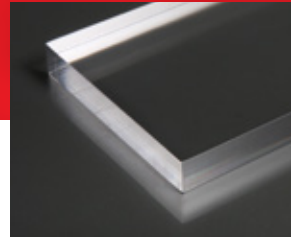
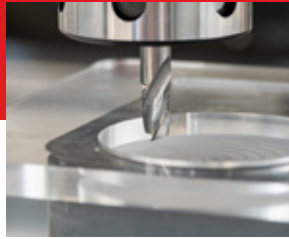
#### COMPANY PROFILE

### **HARMONY & EXCELLENCE**

“carrying the legacy and expertise from a team with more than 40 years experience in manufacturing cast acrylic sheets. With excellence pushing forward together to new heights”

## ABOUT US

Carrying the legacy and expertise from a team with more than 40 years' experience in manufacturing premium cast acrylic sheet. Since then, we have grown rapidly to become a global leader in the industry, with distributors spread across all continents. ISO 9001:2015 certification backs our commitment to a high service quality.

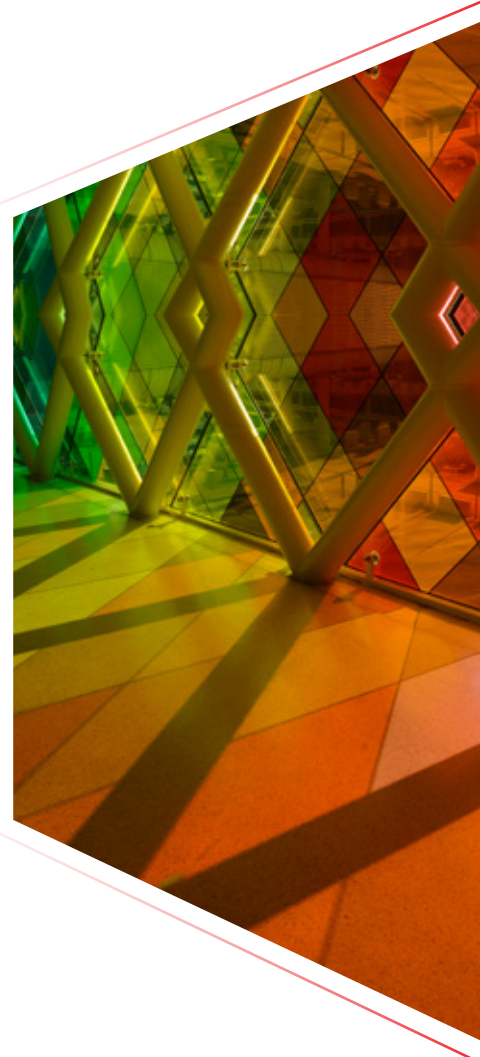


## VISION & MISSION

To be the top global cast acrylic manufacturer, setting the benchmark to the Industry.

We work with our partners worldwide and set the benchmarks that will lead the industry, setting us apart as one of the top global cast acrylic sheet manufacturers.

Our mission is "Harmony & Excellence". We commit to excellence in all aspects of our work together with the aim of reaching new heights whilst maintaining harmony to our stakeholders.



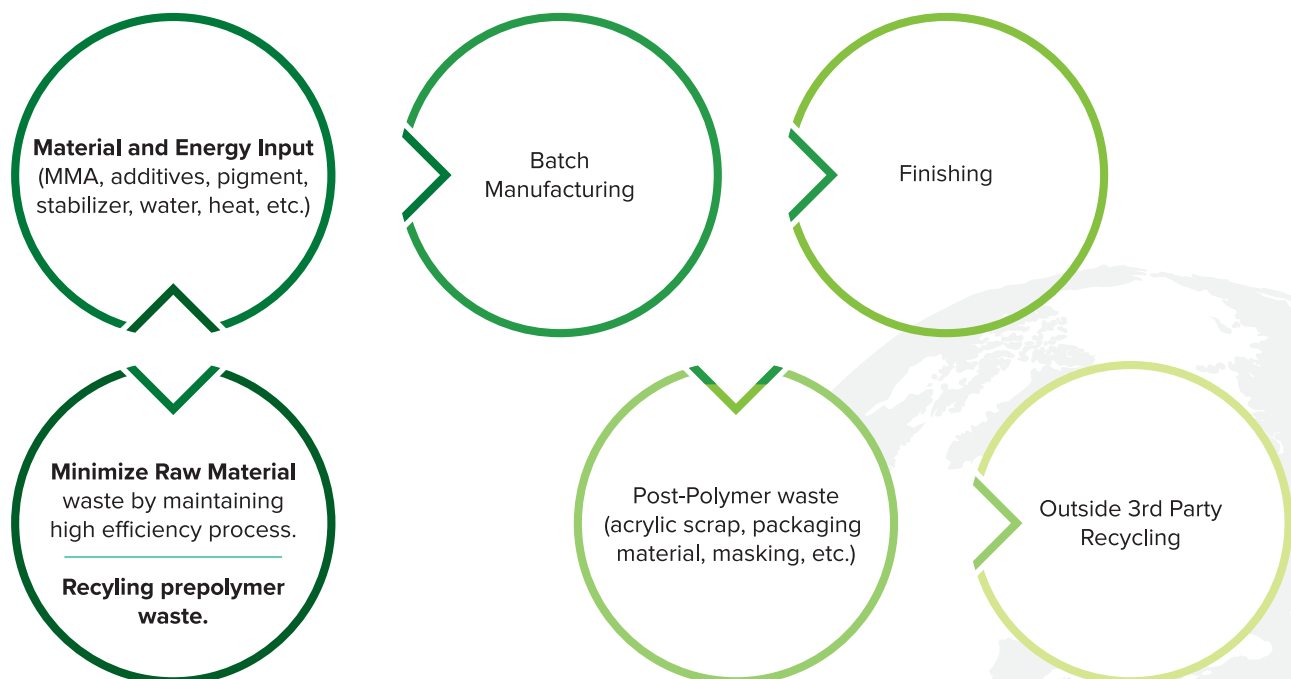


## FACTORY

Our state-of-the-art 60,000m<sup>2</sup> factory is located 80KM South of Bangkok in an industrial zone of Khao Yoi, Petchaburi province - Thailand. Titan Poly Tech Co. Ltd's 35 kTon/annum state of the art cast acrylic sheet production facility is designed to meet International standards for efficiency and productivity through continuous improvements and updates aiming to consistently deliver a high-quality product to our customers.

Located in Thailand in the epicenter of Asia, we're strategically positioned to serve our distributors worldwide.

## GREEN CONSCIOUS PROCESS



# PRODUCT

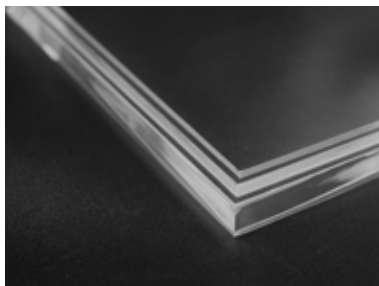
## APPLICATIONS

Due to its clarity, toughness and special properties, cast acrylic sheet has a wide range of practical applications. It's ease to fabricate & properties expand the range of use cases for which cast acrylic sheet is the ideal choice.

Signs, Displays, Cough Guards, Showcase, Building Sector, Machineries and so on.



## COLOR & PATTERNS



CLEAR



MATT = SATIN



OPAL



SPOTLIGHT



TRANSPARENT COLOR

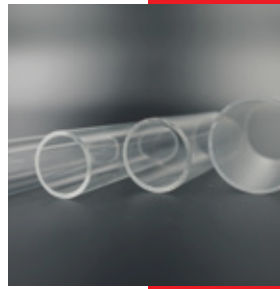


INTRANSPARENT COLOR

# SANITARY GRADE ACRYLIC

Our SANITARY GRADE CAST ACRYLIC sheet is specially developed for manufacturing of Sanitary-ware appliances and produced with Titan Poly Tech's Cell Cast Cross-Linked Technology compliant to EN263 standards to ensure high quality gloss smooth surface, durability, formability and a warm touch.

Due to their resistance to chemicals, cleaning agents and cleaning agents and formability, these acrylic sheets are the preferred choice for bathtubs, shower trays and the like. Ceramic-like colors and color matching options are available.



## ACRYLIC TUBE

Size (mm):

6x8, 8x10, 8x12, 16x20, 21x25,  
26x30, 31x35, 36x40, 41x45,  
46x50, 56x60

Alfaplas Acrylic Tube is produced from extrusion process.

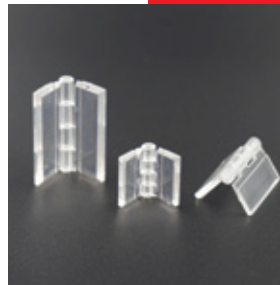


## ACRYLIC U PROFILE

Inner Channel width (mm):

2, 3, 4, 5

Alfaplas Acrylic U Profile is mainly used for making instant channel on thin acrylic sheet.



## ACRYLIC HINGES

Length:

20mm, 30mm, 45mm



## ACRYLIC RODS

Alfaplas Rods is categorised into two:

- Alfaplas Cast Rod

Length :1.2m -2m

Diameter : 12mm - 48mm

- Alfaplas Extruded Rods

Length :1.2m-2m

Diameter : 5mm - 10mm



## ACRYLIC TRIANGLE

Acrylic Triangle/Corner

Length: 1.2m-2m

Diameter: 3mm - 8mm

Alfaplas Acrylic Triangle is produced from extrusion process. It is mainly used as reinforcement between perpendicularly joint sheets.

## STANDARD SIZES

(MM)	950 x 1850	1010 x 2010	1220 x 1830	1280 x 1880	1230 x 2150	1220 x 2440	1280 x 2470	1350 x 2000	1420 x 2200	1540 x 1540	1640 x 1640	1890 x 1890	1580 x 2490	1880 x 2490	1300 x 2540	1270 x 3050	1300 x 3100	1525 x 3050	2030 x 3050	
INCHES	37.4"x72.8"	39.4"x78.7"	48"x72"		48.4"x84.6"	48"x96"		53.15"x78.7"		60.6"x60.6"	64.6"x64.6"	74"x74"	62.2"x98"	74"x98"	51.2"x100"	50"x120"	51.2"x122"	60"x120"	80"x120"	
Thick (mm)																				
1.5	•	•	•																	
2	•	•	•	•	•	•	•	•	•	•	•	•								
2.5	•	•	•	•	•	•	•	•	•	•	•	•		•						
2.8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3-6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
10	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
12	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
15	•	•	•			•		•		•	•	•		•	•	•	•	•	•	•
18	•	•	•			•								•						
20-50			•			•														

## TECHNICAL DATA SHEET

Cast Acrylic Sheet Thickness Tolerance

THICKNESS	% TOLERANCE			
	MM	STANDARD SIZE	LARGE SIZE	EXTRA LARGE SIZE
3		10 %	14 %	17 %
4		8 %	12 %	14 %
5		6 %	10 %	12 %
6		6 %	10 %	12 %
8		5 %	8 %	10 %
10		4 %	6 %	8 %
12		4 %	6 %	8 %
15		4 %	6 %	8 %
18		4 %		
20		4 %		
25		4 %		
above		4 %		

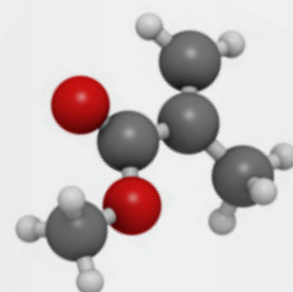
**NOTE:** LARGE SIZE = 1290x2480mm, 1540x1540mm, 1640x1640, 1880x1880mm, 1580x2490, 1880x2490mm

EXTRA LARGE SIZE = 1270x3050mm, 1300x3100, 1525x3050mm, 2030x3050mm  
STANDARD SIZE = other sizes

## CAST ACRYLIC SHEET CHEMICAL FEATURES

(Resistant Properties to Chemical Agents)

Sulfuric Acid	60°C	Stable to 60%
Hydrochloric Acid	60°C	Stable to 60%
Nitric Acid	60°C	Stable to 60%
Caustic Soda	60°C	Stable to 60%
Aqueous Ammonia	60°C	Stable to 60%
Acetic Acid	60°C	Dissolve
Ethyl Acetate		Dissolve
Toluene		Dissolve
Ethylene Dichloride		Dissolve
Benzene		Dissolve
Methyl Alcohol		Dissolve
Diemethyl Formamide		Dissolve
Acetone		Dissolve
Aniline		Dissolve



# TECHNICAL DATA SHEET

PROPERTIES	UNIT	
Specific Gravity (ASTM D792-60 T)		1.19
Hardness (ASTM D 785-62)		HNC - 96
Water Absorption (ASTM D570-63)	%	0.35
Tensile Strength: (ASTM D638-61T)		
Tensile strength at yield	Kg/cm <sup>2</sup>	709
Tensile strength of break	Kg/cm <sup>2</sup>	696
Tensile modulus	Kg/cm <sup>2</sup>	29,532
Elongation at break	%	8
Bending Strength:		
Flexural Strength	Kg/cm <sup>2</sup>	1,052
Flexural Modulus	Kg/cm <sup>2</sup>	31,264
Impact Strength (ASTM D256-56)	Kg/cm <sup>2</sup>	1.1
Shear Strength (ASTM D732-46)	Kg/cm <sup>2</sup>	600 - 650
Transmittance: (ASTM S 1003-61)		
Full rays	%	93.3
Parallel rays	%	HAZE=0.27
Specific Heat	Cal/g/°C	0.35
Heat Distortion Temperature (4.6kg/cm) (ASTM D648-56)	°C	100
Coefficient of Heat Conductivity	Cal/s.cm <sup>2</sup>	4.5 X 10 <sup>-4</sup>
Coefficient of Linear Expansion (ASTM D696-44)	Cm/cm/°C	6.5 X 10 <sup>-5</sup>
Ultimate Temperature of Continuous Operation	°C	60 - 90
Flammability (ASTM D635-63)	Mm/min	33
Surface Resistivity at 28°C	Ohm	> 10 <sup>16</sup>
Volume Resistivity (ASTM D257-61)	Ohm cm	> 10 <sup>15</sup>
Thermoforming Ranges	°C	140 - 180
Dielectric Strength (ASTM D149-64)	Kv/Mm	20

## CAST ACRYLIC SHEET FIRE RATING

Cast Acrylic Sheet burn with little smoke generation.

Its combustions gases are non toxic and non corrosive. It is classed as:

- Classification E according to Euro Norm ( DIN EN SO 11925: 2: 2002-07)
- B2, with no burning droplets, according to DIN 4102
- M4( no droplets) according to NF 92500+
- Class 3 classification according to BS476 part 7
- Category TP (b) according to BS 2782, method 508A for thermoplastics material as defined by Building Regulations
- UL 94HB





**all**