



PT. MARGACIPTA WIRASENTOSA

Cast Acrylic Sheet & PVC Hose Manufacturer



Cert No. ID02/00020

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"Partnership & Quality Beyond Limit"

Product Overview

Cast Acrylic Sheet Dimension	Foot	Inch	Mm
	3 X 6	36 X 72	920 X 1830
	4 X 6	48 X 72	1220 X 1830
	4 X 8	48 X 96	1220 X 2440
	4.5 X 6	54 X 72	1380 X 1830
	3.3 X 6.5	39 X 79	1000 X 2000
	4.2 X 8.2	51 X 98	1290 X 2510
	6.2 X 8.2	74 X 98	1880 X 2490
	6.65 X 10	79.92 X 120	2030 X 3050
Thickness		0.06 – 2	1.5 – 50
	Finish	Clear, Opal, Transparent (tint), Intransparent (opaque/ matted), Fluorescent (Spotlight), Satin	
Acrylic Rod/ Square	Inch	Mm	
Length	47.25 – 78.74	1200 - 2000	
Thickness	0.2 – 1.5	5 – 38	
Acrylic Hinge	Length	0.79, 1.18, 1.77	20, 30, 45
Acrylic Round Tube	Length	78.74	2000
In-Out Diameter			6x8; 8x10; 8x12; 16x20; 21x25; 26x30; 31x35; 36x40; 41x45; 46x50; 56x60
Acrylic Triangle/Corner	Length	47.25 – 78.74	1200 - 2000
Thickness		0.12 – 0.31	3 - 8
PVC Garden Hose			
Type	Elastic hose, re-enforced hose, decorated hose, shower hose, compressor hose, etc.		
Diameter	3/16 inch – 2 inch		
PVC Corrugated Roof			
PVC Door			

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Cast Acrylic Sheet Thickness Tolerance

Thickness		% Tolerance		
Inch	Mm	standard size	large size	Extra large size
0.08	2	12%		
0.10	2.5	10%		
0.12	3	10%	14%	17%
0.16	4	8%	12%	14%
0.20	5	6%	10%	12%
0.24	6	6%	10%	12%
0.31	8	5%	8%	10%
0.39	10	4%	6%	8%
0.47	12	4%	6%	8%
0.59	15	4%	6%	8%
0.71	18	4%		
0.79	20	4%		
0.98	25	4%		
	above	4%		

*Note: Large size = 1880mmX2490mm, 1580mmX2490mm**Extra large size = 2030mmX3050mm, 2000mmX3000mm**Standard size = other sizes*

Cast Acrylic Sheet Chemical Features (Resistant Properties to Chemical Agents)

Sulfuric Acid	60°C	Stabile to 60%
Hydrochloric Acid	60°C	Stabile to 30%
Nitric Acid	60°C	Stabile to 20%
Caustic Soda	60°C	Stabile to 50%
Aqueous Ammonia	60°C	Stabile to 18%
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

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Cast Acrylic Sheet Average Physical Properties

PROPERTIES	UNIT	
Specific Gravity		1.19
Hardness		HNC – 96
Water Absorption	%	0.35
Tensile Strength:		
Tensile strength at yield	Kg/cm ²	709
Tensile strength of break	Kg/cm ²	696
Tensile modulus	Kg/cm ²	29,532
Elongation at break	%	8
Bending Strength:		
Flexual Strength	Kg/cm ²	1.052
Flexual Modulus	Kg/cm ²	31,264
Impact Strength	Kg/cm ²	1.1
Shear Strength	Kg/cm ²	600 – 650
Transmittancy:		
Full rays	%	93.3
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 ²	4.5 X 10 ⁻⁴
Coefficient of Linear Expansion	Cm/cm/°C	6.5 X 10 ⁻⁵
Ultimate Temperature of Continuous Operation	°C	60 – 90
Flammability	Mm/ min	33
Surface Resistivity at 28°C	Ohm	> 10 ¹⁶
Volume Resistivity	Ohm cm	> 10 ¹⁵
Thermoforming Ranges	°C	140 – 180
Dielectric Strength	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