

Product Overview

Cast Acrylic Sheet			
Dimension	Foot	Inch	Mm
	3 X 6	36.2X 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	54.3 X 72	1380 X 1830
	3.3 X 6.5	39.4 X 78.8	1000 X 2000
	3.6 X 7.2	42.9 X 86.2	1090 x 2190
	4.2 X 8.2	50 X 98	1290 X 2510
	6.2 X 8.2	62 X 98	1880 X 2490
	6.65 X 10	80 X 120	2030 X 3050
	4 x 10	48 X 120	1220 X 3050
Thickness	4.3 X 8.3	51.18 X 100	1300 X 2540
	5 X 10	60 X 120	1525 X 3050
Finish	6 X 10	72 X 120	1830 X 3050
	4.4 x 6.5	53.15 x 78.8	1350 X 2000
		0.06 – 2	1.5 – 50
	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	
OTHER PRODUCT			
-PVC Garden Hose		-MC Bond Aluminum Composite Panel	
-PVC Corrugated Roof		-PP Twinwall Sheet	
-PVC Door		-PE Rope	

Cast Acrylic Sheet Thickness Tolerance

Thickness Inch	% Tolerance		
	standard size	large size	Extra large size
0.08	12%		
0.98	10%		
0.118	10%	14%	17%
0.177	8%	12%	14%
0.220	6%	10%	12%
0.236	6%	10%	12%
5/16	5%	8%	10%
3/8	4%	6%	8%
1/2	4%	6%	8%
5/8	4%	6%	8%
3/4	4%		
1	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

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	1052
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