



**UB ACRYLIC**

UB was established in 1987 and specialise in manufacturing A grade cell casting acrylic sheet and dedicated to offering the best, superior quality of cast PMMA.

Owing for supplying the top quality sheet, we insisted on purchasing and using 100% virgin M.M.A to produce our sheets. Besides, the sophisticated machinery, equipment, moulds were procured from best of manufacturers.

Attributing to the fiercely development of petrochemical industry, our acrylic sheets consist of numerous excellent, superior characteristics, such as non-toxicity, light weight, high impact resistance, easy for molding and thermoforming, good weather resistance, illustrious electrical insulation that make our sheets are famous and widely used by worldwide customers. UB acrylic emphasize on every details of production to make sure customer get the perfect products, from collecting staff ideas to controlling quality strictly.

## **DIMENSIONS Based on 3 mm (1/8")**

### **Standard Sizes in**

1. 1220 mm x 1830 mm (48" x 72")
2. 1220 mm x 2440 mm (48" x 96")
3. 1830 mm x 2440 mm (72" x 96")
4. 1350 mm x 2000 mm
5. 1000 mm x 2000 mm

## **PROPERTIES (Average value) 3m/m (1/8 )**

### **Colorless/Transparent**

Specific Gravity	1.19
Rock Well Hardness	M100
Water Absorption (24hrs.)	0.3%
Compressive: Yield	1260 kg/cm <sup>2</sup>
Modulus of Elasticity	3 x 10 <sup>4</sup> kg/cm <sup>2</sup>
Tensile: Rupture	560kg/cm <sup>2</sup> & up
Elongation	3 – 7%
Flexural: Strength	1050 kg/cm <sup>2</sup>
Shear Strength	630 kg/cm <sup>2</sup>
Impact Strength: (200 gr. steel ball)	0.4 m
Refractive Index	1.49
Light Transmittance	91% & up
Heat Distortion Temp.	85°C
Coefficient of Thermal Conductivity	4-6×10 <sup>-4</sup> cal/sec/cm <sup>2</sup> /°C/cm
Coefficient of Thermal Linear Expansion	7×10 <sup>-5</sup> cm <sup>2</sup> /cm/°C
Max. Recommended Continuous Service Temp.	85°C
Hot Forming Temp.	140-160°C
Specific Heat	0.35cal/gr.°C
Dielectric Strength	20kv/mm
Volume Resistivity	>10 <sup>15</sup> ohm-cm



## Chemical Resistance

Sulfuric acid	30%	0	0	70% X
Hydrochloric acid	10%	0	0	36% X
Nitric acid	10%	0	0	100% X
Acetic acid	10% (of)	0	30% (of) 0	98% X
Hydrofluoric acid (conc.)		Δ	Δ	
Sodium Hydroxide		0	0	
Ammonia Water	10%	0	28% 0	

## Effects of solvents

**Unattached at normal temperature:** Hexane, Octane, Formaline 40%, Glycol, Methyl Alcohol, Ethyl Alcohol.

**Insoluble but swelled or crazing:** Butyl Alcohol, Isopropyl Alcohol, Carbontetrachloride.

**Soluble at normal temperature:** Acetone, Benzene, Toluene, Xylene, Ethylenedichloride, Chloroform, Ethylacetate.

## Colors

UB Arcylic is transparent, but it can be tinted in various attractive colours to meet any specified requirement. More than 50 colours are currently available, including transparent, translucent, and opaque.

## Thickness

Standard sheet thickness run from 2 mm to 30 mm.

## Thickness Tolerance

Thickness (m/m)	Tolerance(m/m)
2.0	± 0.3
2.3	± 0.3
2.5	± 0.3
2.8	± 0.3
3.0	± 0.4
3.8	± 0.4
4.8	± 0.5
5.0	± 0.5
5.8	± 0.6
6.0	± 0.6
7.8	± 0.8
8.0	± 0.8
9.8	± 1.0
10.0	± 1.0
12.0	± 1.0
15.0	± 1.2
18.0	± 1.3
20.0	± 1.5
25.0	± 1.5