

COMPANY PROFILE

Located near Kuala Lumpur, Malaysia, UB Acrylic is a dynamic manufacturer and supplier of UB cast acrylic sheet across the globe. Since its incorporation in 1987, UB Acrylic has strategically transformed itself into a reliable provider of acrylic materials to the marketplace.

We focus on building long lasting relationships to achieving execution excellence. Our international portfolio reaches customers globally in over 10 countries worldwide. By having a portfolio of local and international customers, we truly understand the needs of our customers and the markets in which they operate. Thus, we are able provide a wide range of quality products to help them gain competitive edge in their respective business environments.

Our success is driven by dedication and strength of our people, delivering results the right way by applying innovative technologies and capturing new opportunities for growth.

MISSION statement

UB Acrylic is fully focused on research and development and have established a track record in providing customers with the products and services to meet their current and future needs.

With a commitment to product development and continuous Improvement, we constantly optimise our production processes to improve productivity and quality. Thus, we work very closely with our distributors and customers around the world, to identify specific market and industry requirements.

Human resource is one of the most important functions in the company as people are our most important asset. One of the key factors that contributes to our company's success is our team of dedicated and committed people. Hence, we are bound to ensure their welfare and well-being are taken care of by providing a conducive and safe working environment to them.



25 Years of Manufacturing Excellence

With 25 years of contribution to the industry, UB Acrylic is dedicated to provide efficient and competitive products to all its customers. We are committed to strive for excellence in every area of our customers needs through effective and efficient use of resources, innovation, new technology and high customer service standards.



VISION statement

UB Acrylic aspires to become a world class manufacturer and market leader of quality cast acrylic sheet. We aim to consistently satisfy the needs and expectation of our distributors and customers. Today, we distribute our products in over 10 countries and seek to expand further to more countries worldwide.



ABOUT OUR PRODUCT

Acrylic is a material known as Methyl Methacrylate cast sheet that has special physical properties that can be produced in several forms and provide a wide range of practical applications. It is characterised by remarkable optical properties, is easy to work, and shows excellent resistance to atmospheric agents and light.

Characteristics of Acrylic

The major characteristics of acrylic are:

- (a) Naturally transparent with optical clarity
- (b) Glossy surface and exciting delightful colours
- (c) Weather resistant
- (d) Durable and impact resistant

PRODUCT APPLICATIONS

Examples of product applications:

- ✓ Advertising signage and public display signboards
- ✓ Architectural and decorative patterns
- ✓ Automotive accessories
- ✓ Bathroom facilities
- ✓ Communication facilities
- ✓ Construction auxiliary materials
- ✓ Corporate imaging
- ✓ Decorative lightings
- ✓ Educational tools
- ✓ Kitchenware and dining utensils
- ✓ Technology application coatings and coverings
- ✓ Interior design

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Company Product Quality Policy

Product Quality Assurance is one of the most important elements of our company's policy.

UB Acrylic is committed to provide world-class products and services in every area of our organisation.

Our target for quality is to consistently maintain and to improve the quality of our products to the highest level, in order to meet customers' needs and requirements.





BUILDING



CONSTRUCTION





The advantage of using acrylic material in the modern construction techniques has been much heralded, especially by its imbibed delightful and colourful characteristics enhancing the pulchritude of the buildings. The acrylic touch has opened up new thrilling scopes in creative building designs, new defining dimensions in architectural paragon, and new endeavour in engineering paradigm.

In addition to the artistic attributes of acrylic, its physical, chemical and optical properties render the material vastly superior and robust, when compared to other products. The acrylic material has multi-faceted practical applications in the modern construction and building industries.

- Roofings : Corrugated sheets, RC light covers, Skylights
- Ceilings : Light fixture covers, Daylight panels
- Walls : Partitions, Decorated screens, Wall scrolls
- Floors : Section strips, Floor light panels
- Doors and Windows : Glazing, Handles
- Stairs : Treads, Risers



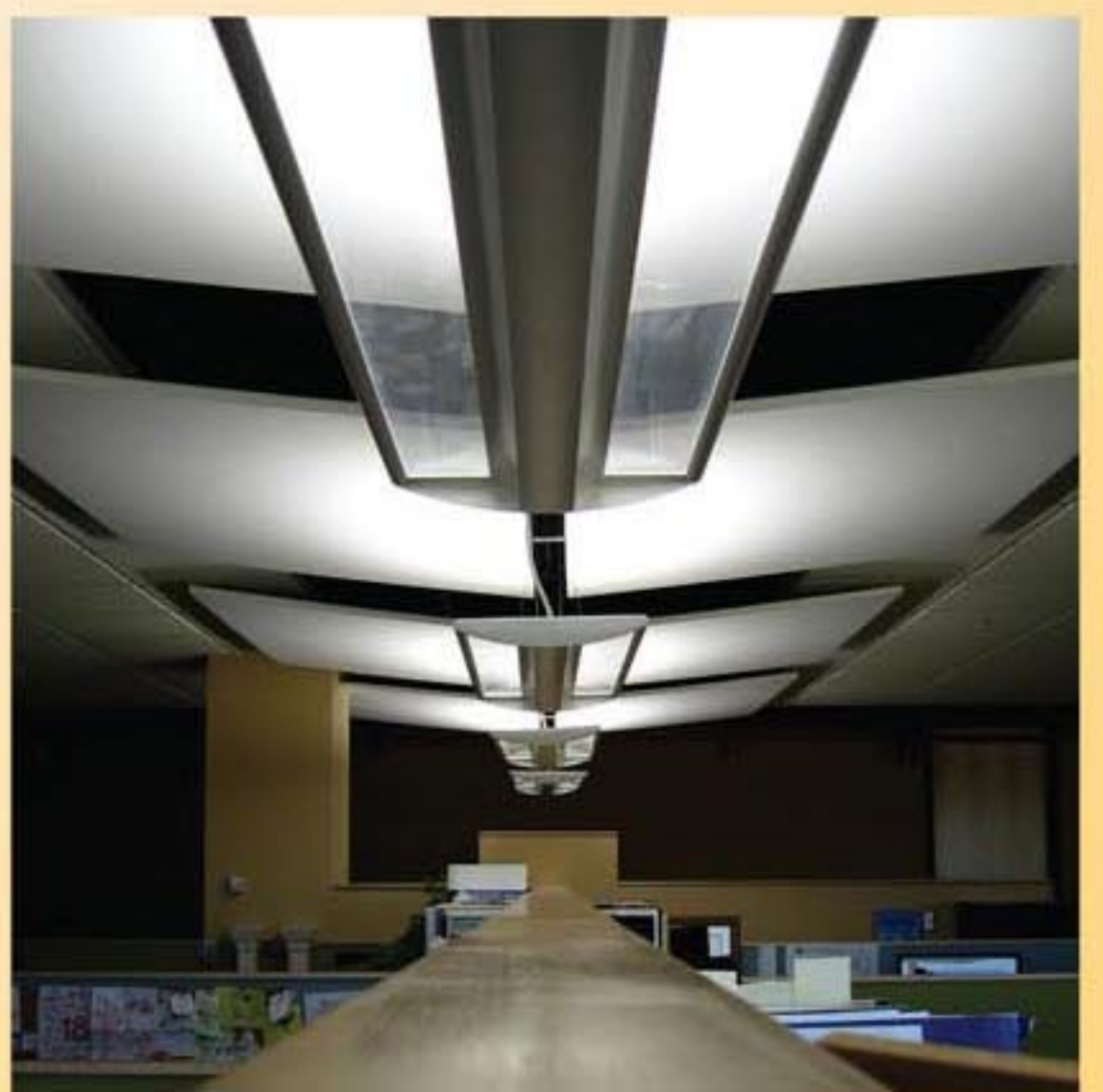
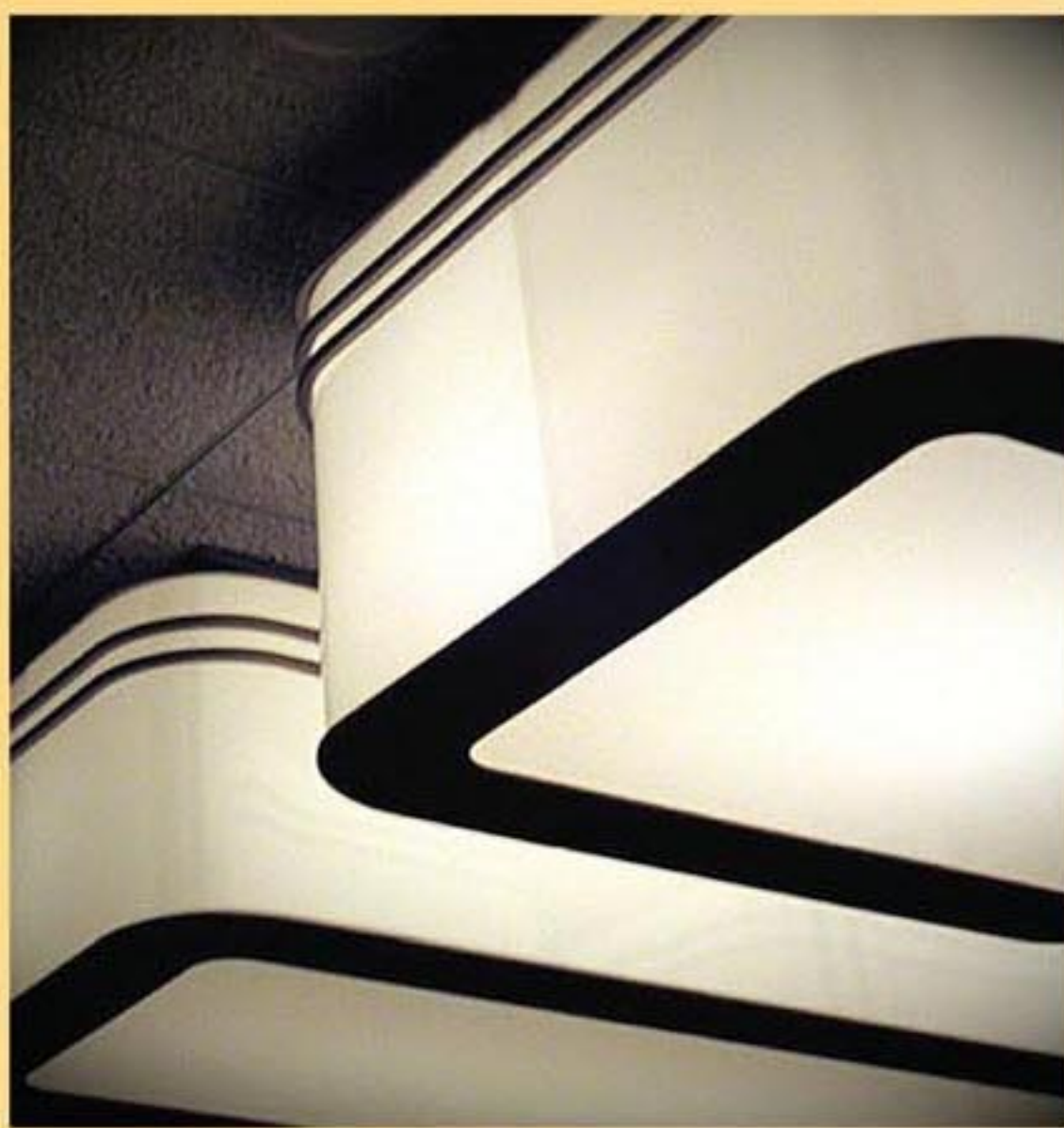
artistic

Perhaps the most defined definite form of acrylic beauty lies in the light fixtures, where unparalleled design versatility is used to the fullest. The acrylic materials are especially noted and known for its adaptability in outdoor and indoor lamps, chandeliers, specially designed lamps, and ornamental lamps.

The light radiating from a colourful lamp shade made by the acrylic material emits a tranquil serene effect to give a calm and comfortable sensation. Truly, the acrylic products brighten lives.

LIGHTING DESIGNS





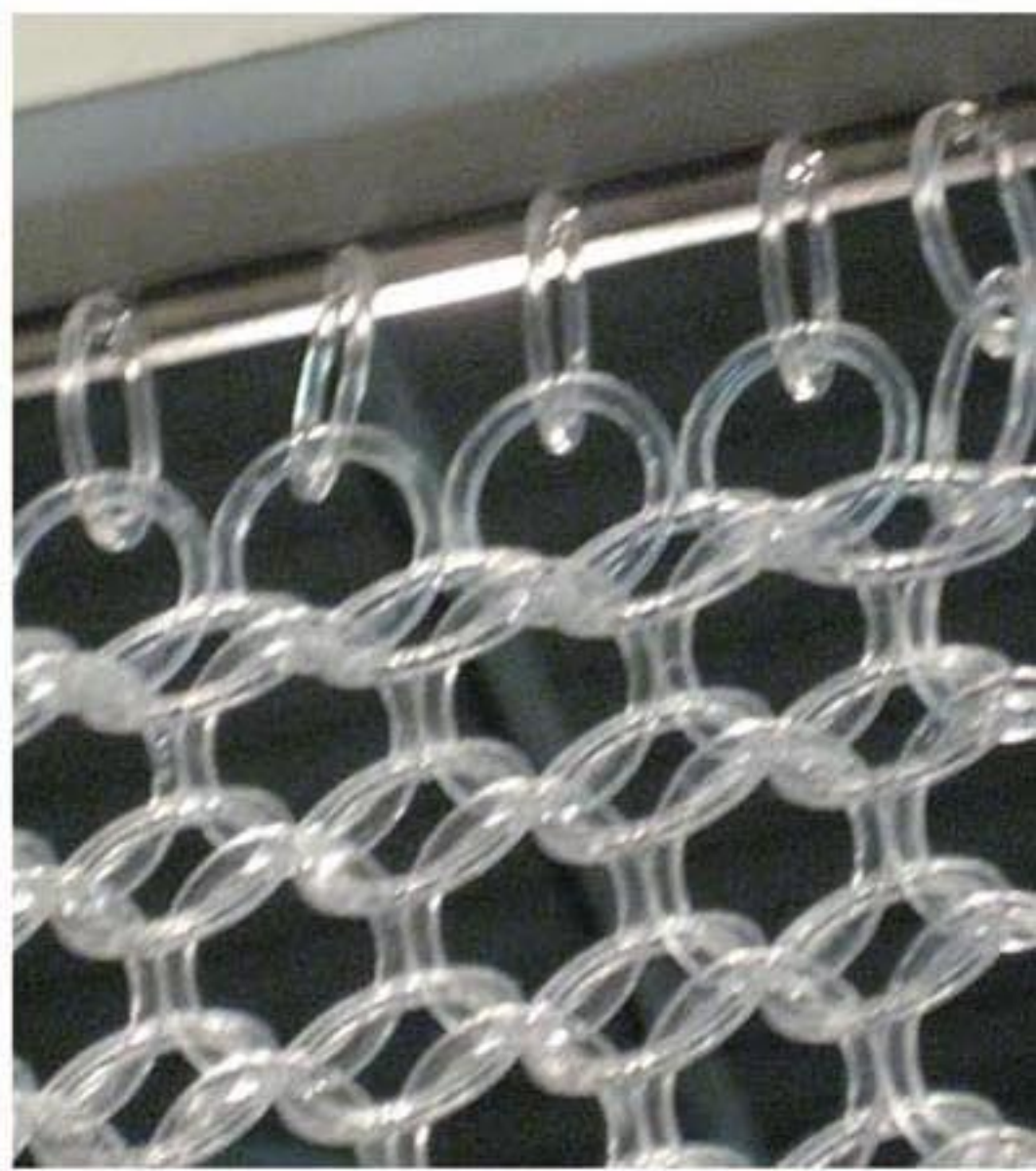


INTERIOR DESIGN FIXTURES



For many years, acrylic has inspired interior designers with interior design ideas and home decorating inspiration for businesses, offices and the entire home.

More than just a usual material, acrylic can add decorative element and bring ideas to life and offer a unique perspective to every individual. Working with acrylic, the capabilities are nearly limitless and have led to a wide range of projects in commercial and personal applications around the world.



sanitary ware



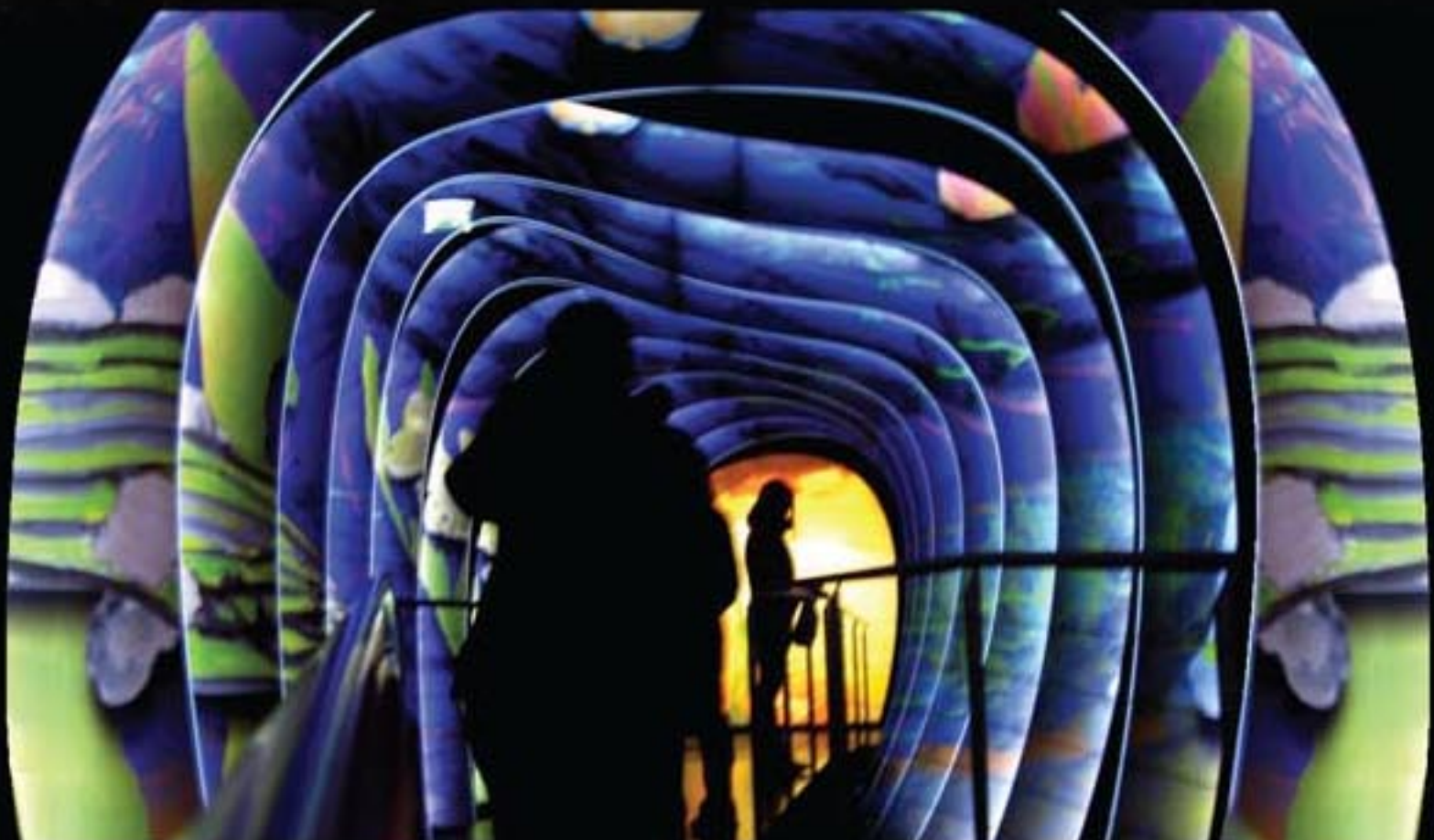
Even sanitary fittings are now enchanting and refreshing, with most made with acrylic materials in bold charming and colourful designs. The wash basins, for example, have taken on a ravishing look with a bit of captivating glamour.

FURNITURE

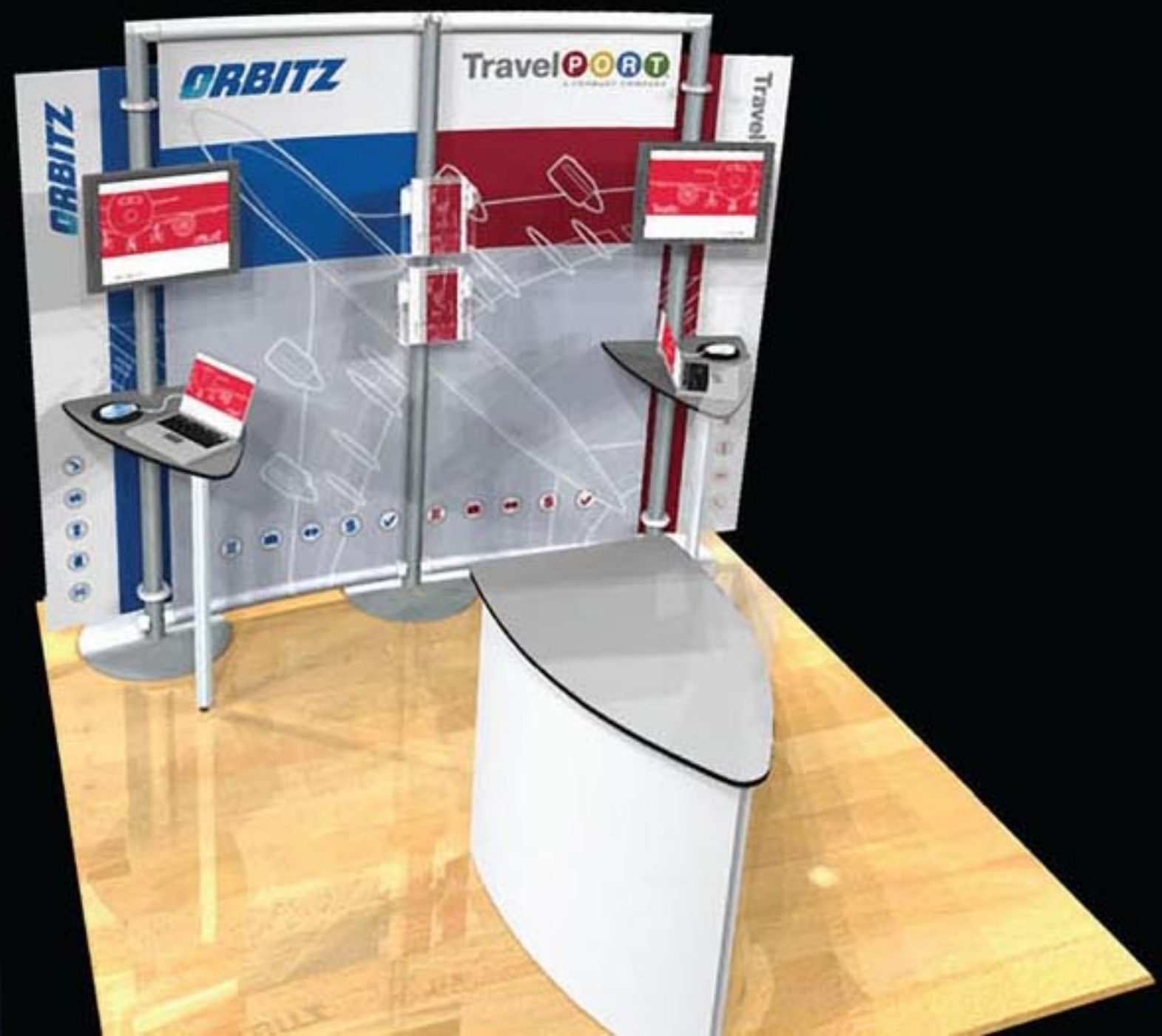
The acrylic material has caused a decor revolution in the dim and dull traditional homes and offices, and is fast turning them into delightful bright and charming conducive environments.

Most of the often attractively designed home and office furniture would certainly be made from acrylic materials. And, the accessories and the lighting decor are usually all acrylic products.





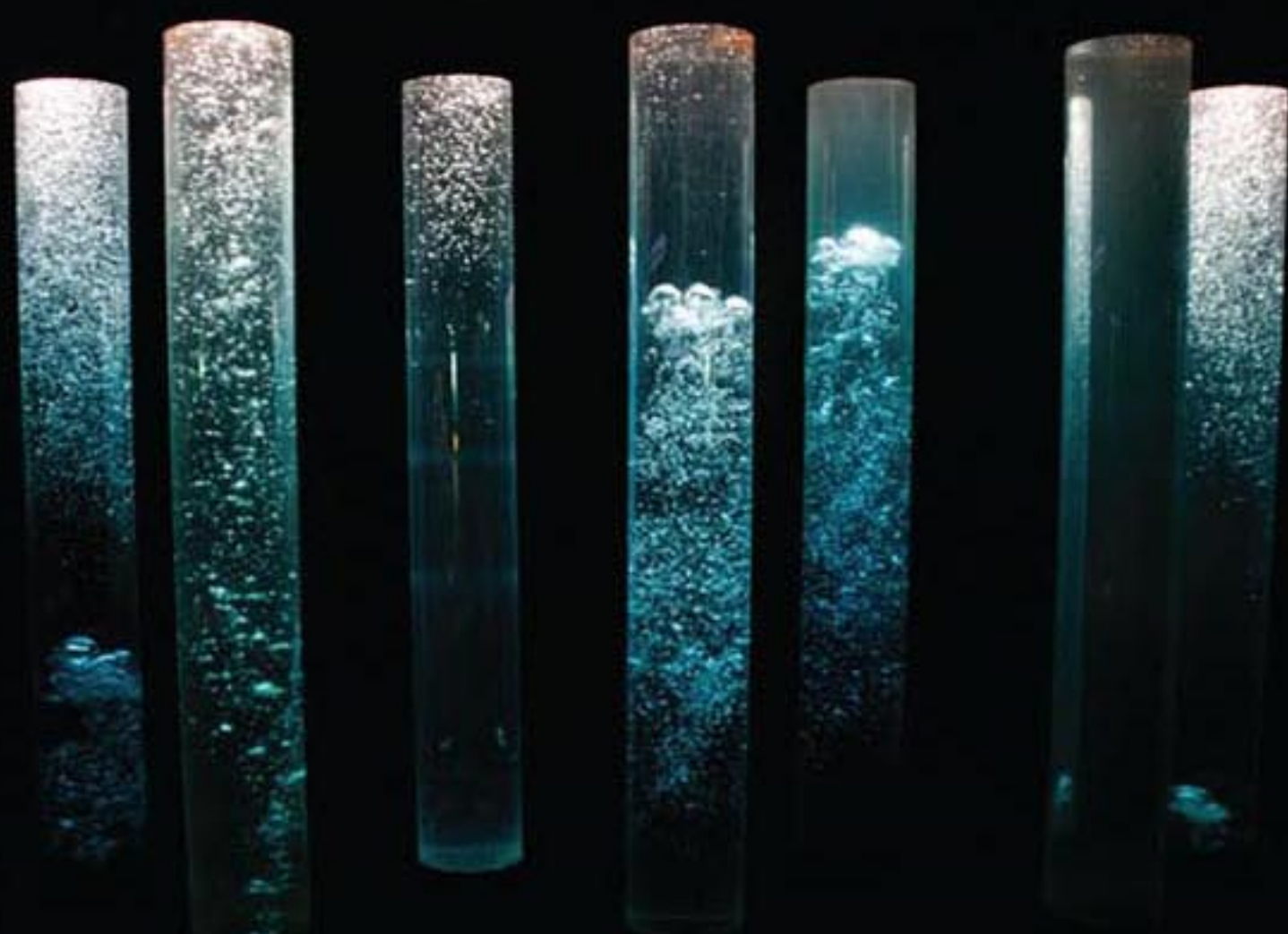
Trade show fixtures are integral to the image, functionality and appeal of any exhibit. Employing the use of acrylic offers effective strategy to designers with great ideas and solutions to successfully produce strong interest and excitement.





aquatic creations

The essence of living art comes to life with innovatively designed acrylic aquariums, fish tanks and fittings, thanks to the extensive attributes and functions of acrylic.



PUBLIC UTILITIES



advertising signages



Outdoor advertising signages have been eclipsing the skyline of the cities of the world since the advent of high-rise buildings at the beginning of the 19th century, and today no city in any part of the world is spared the clusters of advertising billboards all over the place.

By utilizing acrylic, the cost of installation and maintenance of the advertising signages are becoming lower, and more affordable and manageable compared to traditional materials. There is also the advantage of a definite choice of transparent, translucent, and opaque materials offering variations in design. Nonetheless, a wide range of exciting vibrant colours is available, for bolder, eye-catching attractive appearance.

And, perhaps the best deal is the long-lasting lifespan of the signages made with acrylic materials which are weather-resistant, with negligible colour fading, and no rust and corrosion.

auto accessories

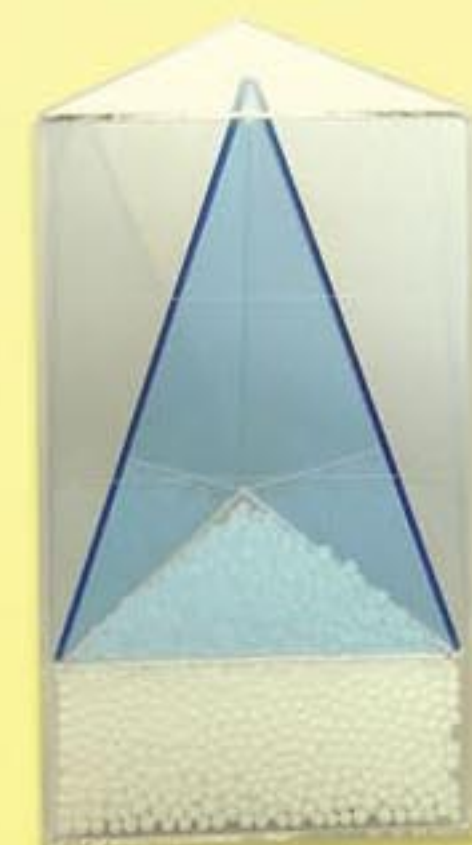
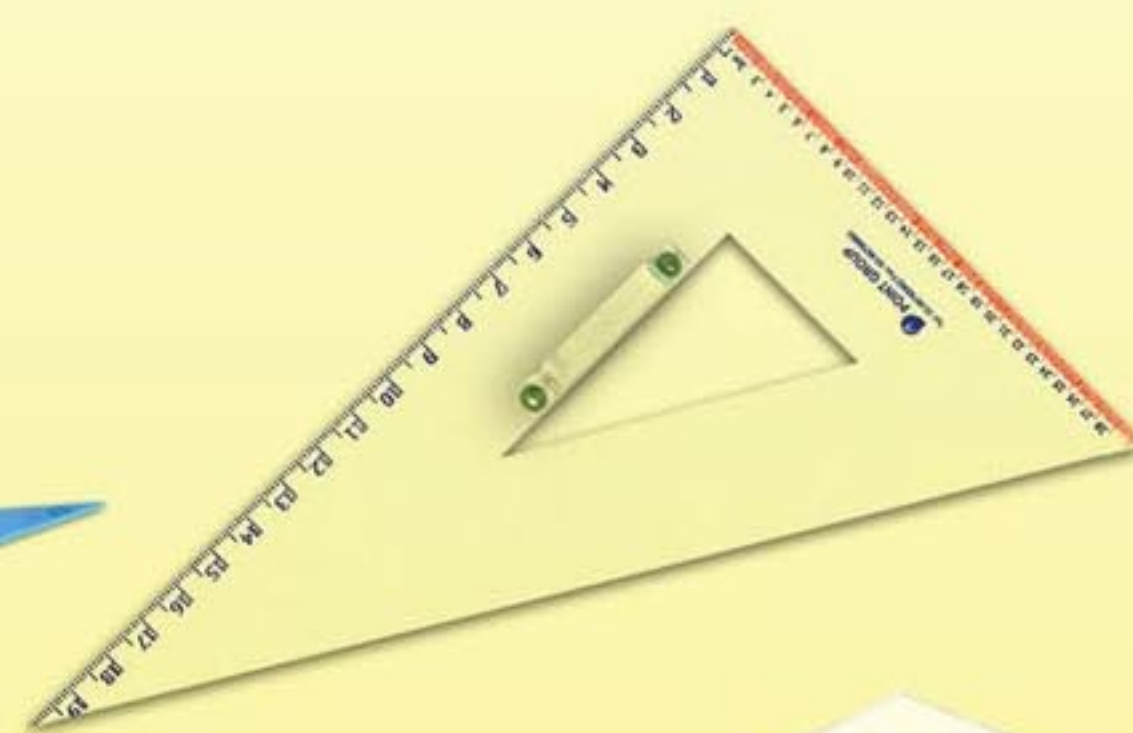
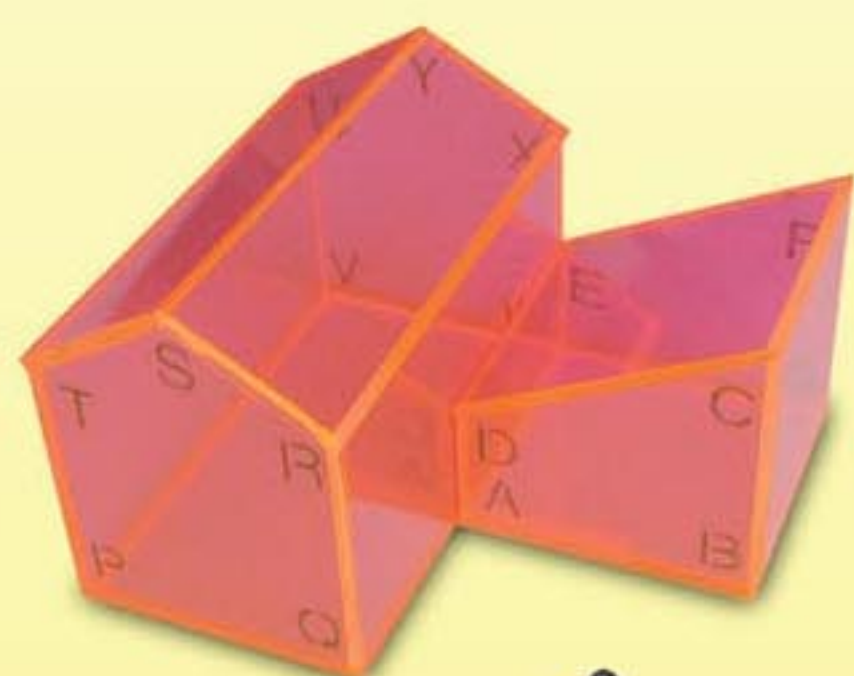


Acrylic is widely used in standard auto accessories, such as, door visors, headlight protectors, sunroofs and safety reflectors.

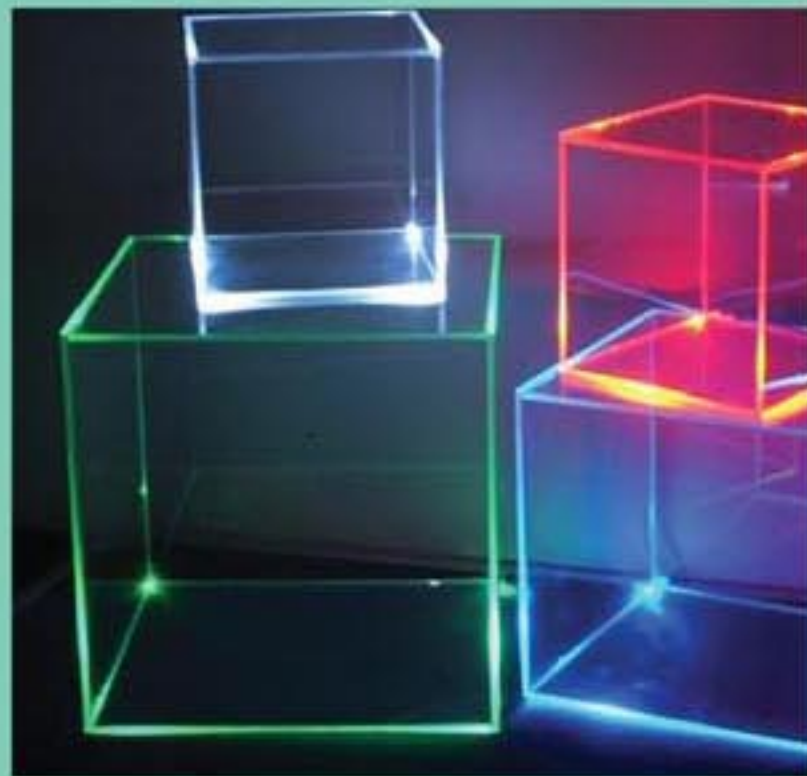
It is highly resistant to oils, gasoline, chemicals and alkalis. The colour tint is extremely effective in reducing glare and heat.



teaching aids



Here you can explore many useful ideas acrylic can offer. It can be used to create teaching aids to teachers, to help with preparing a lesson, managing children and making the classroom an enjoyable place to be. Teaching can be fun, meaningful, and easy with these useful tools.

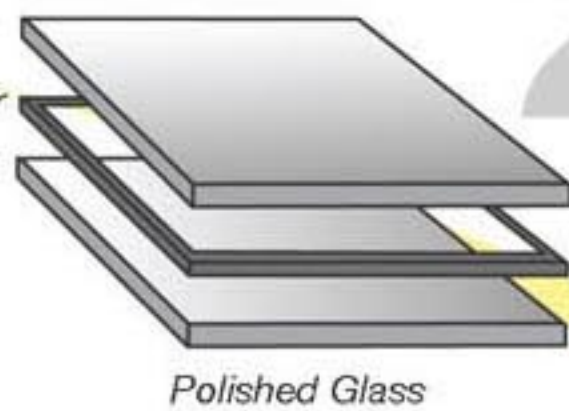




1

Frame Spacer

Polished Glass



2

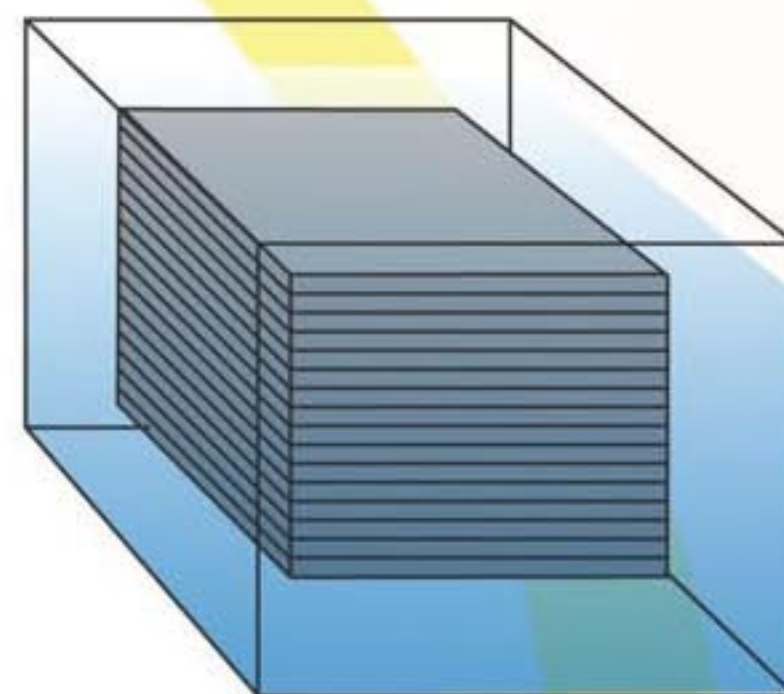
Preparation of Mould

Two sheets of polished glass separated by flexible frame spacer which form a mould cavity.

3

Casting

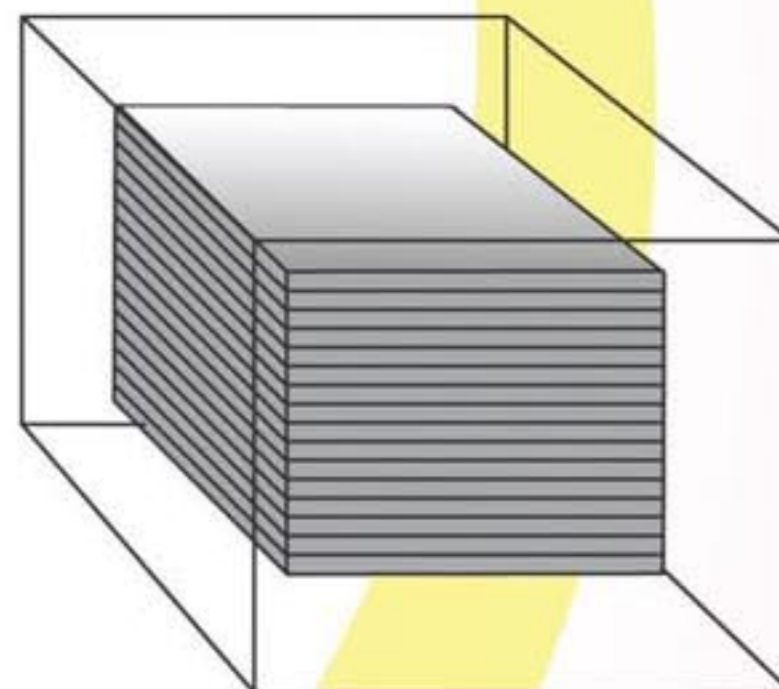
The mould cavity is filled with liquid acrylic. It is then sealed and heated.



4

Polymerisation

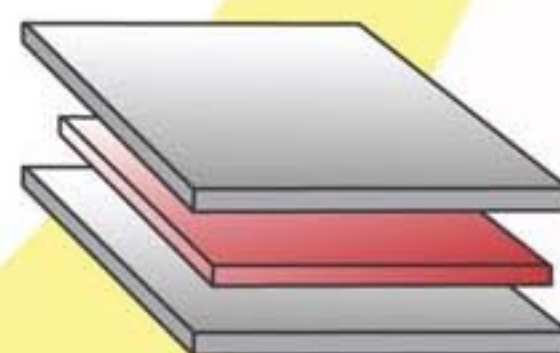
Polymerisation in water.



5

Annealing

Annealing in oven.



6

Demoulding



7

Masking & Cutting



Warehousing

8



Delivery

9

PRODUCTION PROCESS



We strive for excellence in all we do through innovation and continuous improvement.

Our acrylic sheets are made from virgin MMA (methyl methacrylate monomer) ensuring that the highest quality product is achieved. This ensures excellent clarity, weather ability and high strength.



PROPERTIES OF UB ACRYLIC

DIMENSIONS Based on 3 mm (1/8")

Standard Sizes in Width and Length

- 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")

Colourless/Transparent

Specific Gravity	1.19
Rock Well Hardness	M100
Water Absorption (24 hrs.)	0.3%
Compressive: Yield	1260 kg/cm ²
Modulus of Elasticity	3 x 10 ⁴ kg/cm ²
Tensile: Rupture	560 kg/cm ² & up
Elongation	3 - 7%
Flexural: Strength	1050 kg/cm ²
Shear Strength	630 kg/cm ²
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	4-6x10 ⁻⁴ cal/sec/cm ² /°C/cm
Coefficient of Thermal Linear Expansion	7x10 ⁻⁵ cm/cm/°C
Max. Recommended Continuous Service Temp.	85°C
Hot Forming Temp.	140-160°C
Specific Heat	0.35 cal/gr.°C
Dielectric Strength	20 kv/mm
Volume Resistivity	>10 ¹⁵ ohm-cm

CHEMICAL RESISTANCE

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

Note: 0 (Excellent) Δ (Good) X (Inferior)

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.

COLOURS

UB Acrylic 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.

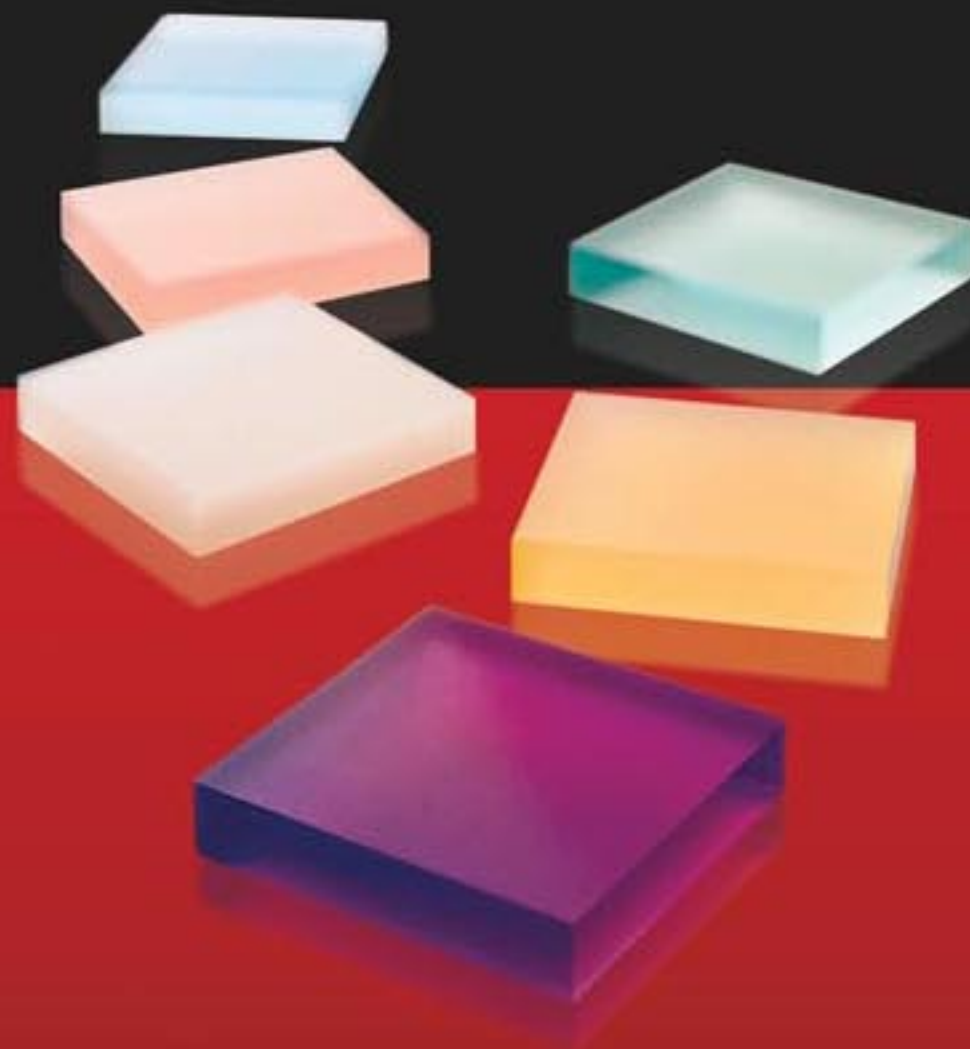
THICKNESS

Standard sheet thicknesses 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

The values indicated above are provided for reference only. While every effort has been made to ensure accuracy of the information provided, UB Acrylic (Malaysia) Sdn Bhd is not responsible for any errors or omissions that may occur.



“Committed to excellence through optimal use of resources, innovation, new technology and high customer service standards.”



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