

DONCHAMP® NoiseGuard

Integrated Solutions – Acoustic Barriers

DONCHAMP® NoiseGuard Colors

DONCHAMP® NoiseGuard Colour Code

7536
0399
0507
0349
0601
0603



Grades available:

- **DONCHAMP® NoiseGuard** (Gloss surface finish)
- **DONCHAMP® NoiseGuard FSR** (Filament Shard Retention)
- **DONCHAMP® NoiseGuard Velvet** (Satin finish 1 or 2 sides)



Color Availability:

Clear / transparent - tints / translucent & opaque.

Filament Colors:

Black, Clear/Natural.

Current Surface Finish:

High Gloss Velvet/satin (V1-1 side or V2- 2 sides) finish.

Std. Dimensions/panel sizes:

2000mm x 3000mm 2000mm x 4000mm
2000mm x 5000mm 2300mm x 4000mm

Standard thicknesses:

12.0mm, 15.0mm, 18.0mm, 20.0mm and 25.0mm

Masking:

Pressure Sensitive PE film.

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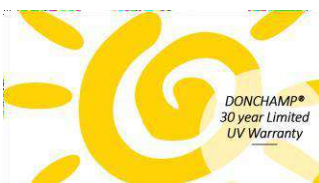
DONCHAMP® NoiseGuard

Case reference

<i>Project Location:</i>	Circle Thruway of Suzhou City China
<i>Material:</i>	DONCHAMP® NoiseGuard FSR (Filament Shard Retention) Cast Acrylic
<i>Colour:</i>	Clear
<i>Filament Colour:</i>	Black
<i>Panel Size:</i>	2500mm x 1500mm x 15.0mm
<i>Panel Quantity:</i>	2500m ²
<i>Protective Masking:</i>	PE Masked 2 side



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Contact us

Tel. (02) 8038 2000 Fax. (02) 9417 6169 Web. www.allplastics.com.au
Address. Unit 20/ 380 Eastern Valley Way, Chatswood, NSW 2067 AUSTRALIA.

DONCHAMP® NoiseGuard Case reference

25-11-19

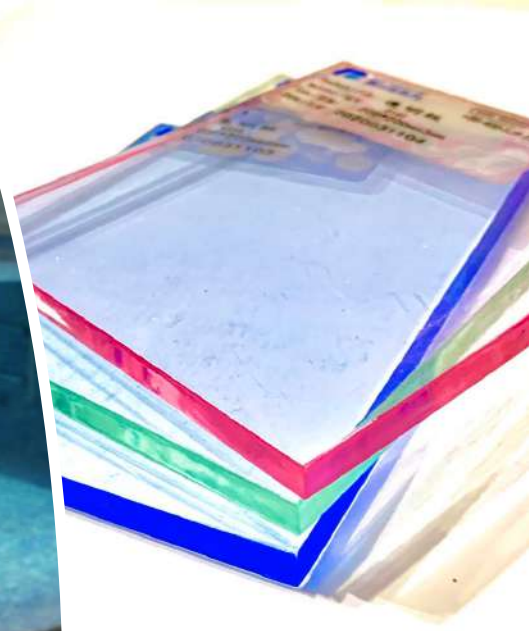
<i>Project Location:</i>	Highway No.6 Motorway in Nakornratchasima, Thailand
<i>Material:</i>	DONCHAMP® NoiseGuard FSR (Filament Shard Retention) Cast Acrylic
<i>Colour:</i>	Clear
<i>Filament Colour:</i>	Black
<i>Panel Size:</i>	2000mm x 2000mm x 15.0mm
<i>Panel Quantity:</i>	400 panels
<i>Protective Masking:</i>	PE Masked 2 sides



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*Acrylic Sheet & Block –
The transparent solution
is specialty glazing.*



Acrylic Substrates

Numerous market opportunities....

PRODUCT RANGE:

1. Cell Cast Acrylic
2. Eco Friendly Acrylic
3. Large Format Acrylic
4. UV Filtering Acrylic
5. Abrasion/Mar Resistant
6. LED Grades
7. Black/White colour variation
8. 2 Sided Satin Finish
9. Colored Edge Finish
10. Noise Barrier Glazing
11. Cast Acrylic Block – Aquatic Glazing
12. Sanitaryware Acrylic



Acrylic sheet & block-

Leading technology enabling new designs....

Acrylic Sheet / Block :

Long established glazing substrate, recognized for optical clarity, longevity & mechanical properties.

Advantages:

- Excellent light transmission and optical brilliance with a consistent quality.
- Extremely high weather resistance, 30-year UV guarantees available on Clear.
- Ease of fabrication, high bonding strength enabled between surfaces.
- Good surface hardness.
- Low weight - half the weight of glass / 11 times the impact strength of glass.
- 100% recyclability.
- Integrated fabrication & thermoforming capabilities available.
- Numerous stocked thicknesses.
- Capabilities of up to 750.0mm & beyond.

Surface Finish: High Gloss/Satin/Matt-Velvet/Anti-Reflective/Texture.

Colours : Numerous colours & colour matching is available.

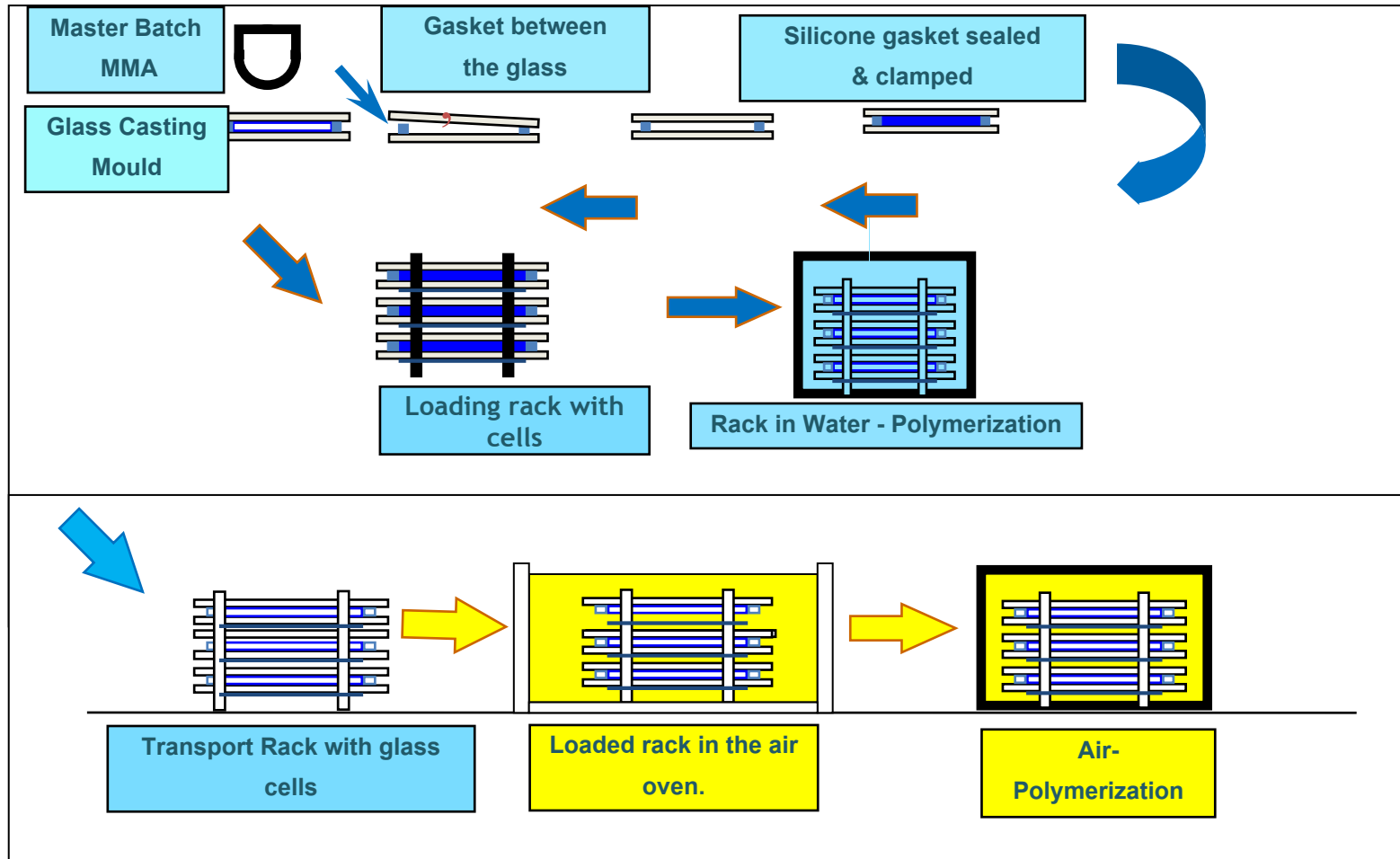
Applications

- Aquarium /Pool glazing EG. cylinders, tunnels, flat & curved supported on 3 & 4 sides.
- Signage/display/POP/Shop-fitting/Lighting/Feature walls (illuminated)/Picture framing.
- Noise & wind barriers
- Electronic displays
- Architectural glazing – Roofing/cladding/machine guards/windows
- Transportation – Motor home windows/aircraft windows



Acrylic sheet & block-

Leading technology enabling new designs....



Acrylic Substrates – General Purpose

Numerous market opportunities....

- Produced with 100% virgin MMA.
- 30 year UV clear warranty available against yellowing & UV degradation.
- 10 year UV color warranty available against discoloration.
- Large range of colours established.
- Available in both paper & PE Masking.
- Over 20 different standard sizes, with a thickness range of 2mm – 30.0mm

No RMMA or DMMA, only 100% Virgin MMA.
10 -year color warranty.
Thickness tolerances are governed by ISO standards.

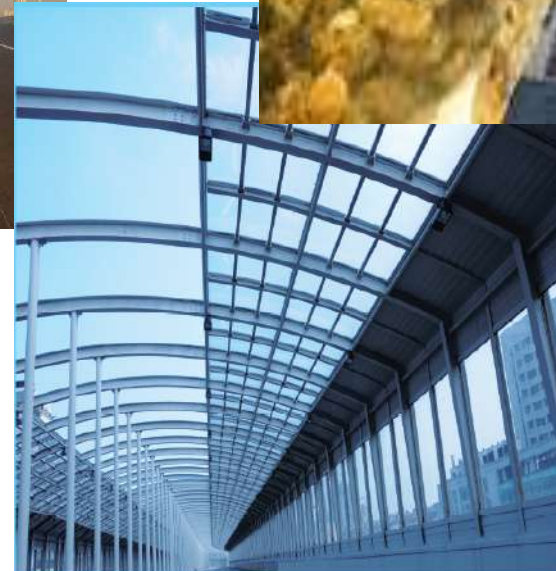
**Excellent surface gloss finish after polishing.
Excellent machinability.
Can be easily fabricated into 3D shapes & cut designs.**

Polymerized (cured) acrylic sheet will contain low internal stress.

Available in a gloss & matte finish.

Excellent planarity – surface flatness after complete polymerization.

Acrylic substrate Sparkling as a long term performer....



Green Acrylic (RMMA)

A clear environmental choice – Eco friendly option.

Green Acrylic (RMMA) – Environmentally friendly, with good optical qualities, highly economical, performer.

Green cast acrylic sheets was recently developed as an environmentally friendly, sustainable, acrylic alternative. Green Acrylic is produced using our unique process, utilizing discarded acrylic offcuts & scarps, which previously became possibly landfill, into a high optic, very economical, quality acrylic sheet. Green Acrylic can be used in applications such as display stands, point of purchase displays, exhibition stands etc. & is available in both Paper or PE pressure sensitive masking. Green Acrylic has minimal effect on the environment, reducing our generations environmental footprint, making it the logical choice in fabrication.

The unique features and benefits of Green Acrylic are:

- Excellent high gloss optical surface appearance.
- Thickness tolerances meet with a tighter tolerance than ISO standards.
- Excellent planarity – surface flatness – with complete polymerization.
- Good surface hardness, low internal stress etc.

Applications:

Display stands

POP displays/Exhibition stands, Signage etc.



DONCHAMP® ImagePlus

UV Filtering – Conservation Framing.

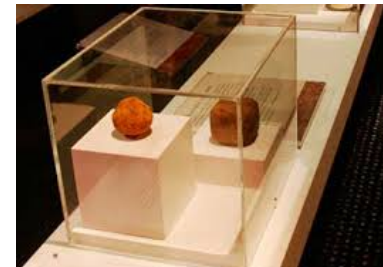
UV Filtering Cast Acrylic

UV Filtering / UV Blocking cast acrylic is produced for conservation framing & museum case protection. It completely filters harmful UV rays unlike conventional products such as float glass. UV Blocking cast acrylic is produced using a standard cast acrylic process & in application it allows less than 1% UV transmission. UV Blocking cast acrylic enables long-term protection of your artwork & artefacts. UV Blocking cast acrylic is a light weight, easy to cut & install, plus has high impact strength in comparison to glass. Easy & safer to transport, reducing damage costs against glass.

- Less than 1% harmful UV ray transmission.
- Excellent optical qualities with 92% light transmission.
- Light weight, easy to cut & fabricate.
- Break resistant, stronger than float glass, easier to transport without damage.

Also available Hard coated scratch resistant surface finish UV Blocking cast acrylic .

Applications: Conservation framing, general picture framing, display cases, signage, exhibition & display, POP.



Hard Coated Acrylic - Acrylic with scratch/mar/abrasion resistance....

Hard Coated Acrylic – Hard coated surface protection cast acrylic sheet.

- Available in one side & two sides surface coating options.
- Good abrasion & chemical resistance.
- High optical quality (coating applied in clean room conditions).
- Exceptional UV protection.
- Good fabrication and machining capabilities.
- Various coating surface hardness available.
- Lower handling costs & risk of damage.
- Small MOQ's.
- Excellent optical qualities with 92% light transmission.
- Light weight, easy to cut & fabricate.
- Break resistant, stronger than float glass, easier to transport without damage.
- 5 Year UV warranty.

Applications: Machine Guards, Conservation framing,, display cases, signage protection (directory boards), ATM Cash Point Machine surrounds, POP etc.



LED Comaptible Acrylic- LED luminous acrylic with optimum results....

LED compatible lighting grades:

Bulky illuminated signboards are a thing of the past. Advancements with LED lighting in recent years have led to new grades of LED compatible acrylic sheet which compliments the performance of the backlit LED systems.

LED acrylic offers colour performance, allowing sign producers and designers, greater benefits of LED's, as well as slim line design options which are cost-effective.

Grades available: standard clear, translucent white/opal, dual twin colour & translucent colours upon request.

Advantages:

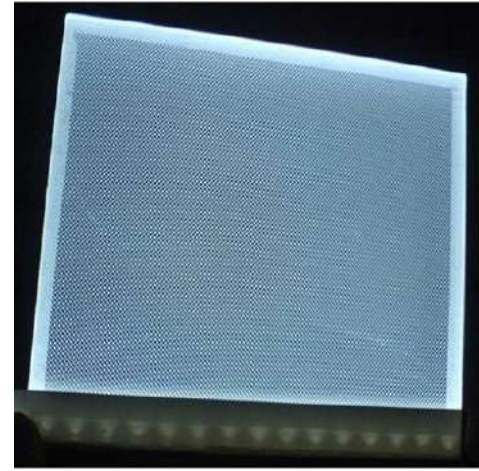
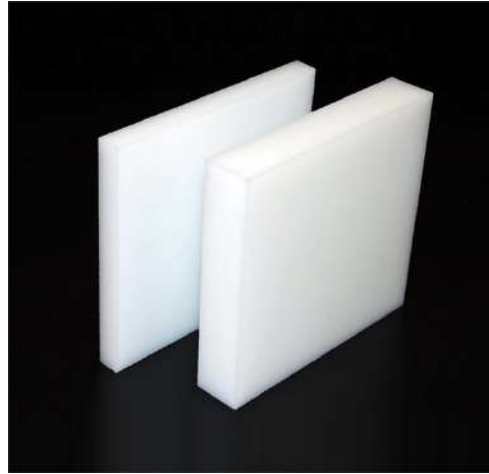
- Excellent edge light grades available, high level of lux.
- Two edge light options – laser etched or light dispersing pigmentation.
- Optimum LED backlit illumination.
- Transparent White/colours have excellent light reflecting properties.
- Colours in reflected & transmitted light.
- High level of LED transmission with the colour matched to the colour wavelength.
- Day/night colour development also available.
- Easy to shape/thermoform into cosmetically pleasing curves.
- Long product life. (30-year UV guarantee on Clear / 10-year UV guarantee on colours).
- Strong surface hardness (as opposed to other plastic polymers)



LED ACRYLIC - LED luminous acrylic



LED ACRYLIC- LED luminous acrylic.



Twin Colour Acrylic - Dual colour acrylic.

Twin Colour Acrylic

- Changing appearance when illuminated.
- Original colour non illuminated, changes to “white/opal”, once illuminated.

Twin Colour Acrylic Black/White & Blue/White

Available in 3.0mm, other thicknesses available on request.

- Can be cut, drilled, machined, bent, thermo formed & glued.

Advantages

- Two appearances in one panel, creates eye catching attention.
- Hidden information is visible when the light source is illuminated.
- Assists with possible sign pollution.
- Cast acrylic that can be easily fabricated.
- 10-year UV guarantee.
- LED Compatible, good light diffusion.
- Good surface hardness.

Applications:

Signage, POP displays, exhibitions, lighting features etc.



Satin finish Acrylic- Illumination with natural & led light....

Satin finish acrylic has a textured, matt finish surface. It's frost-like appearance softens colours & when illuminated it disperses the illumination with a level of brilliance, enabling no LED hot spots.

Satin finish acrylic comes in a range of colours, with also color matching availability for project requirements. This can also include different levels of light transmission, further diffusing the light.

- Reduces the chance of showing scratches, tough surface (higher density than commercial acrylics).
- Virtually eliminates fingerprints.
- Bright décor transparent/translucent colours.
- Vinyl graphics can be easily applied.
- Ideal for back illumination & compatible with LED illumination.
- Can be cut/bent/thermoformed/glued & polished.

Applications: Feature walls, counter fronts, reception area's, foyers, partitions, shower screens, cabinet doors, wardrobe doors, signage, shop fitting, displays / exhibitions & lighting.



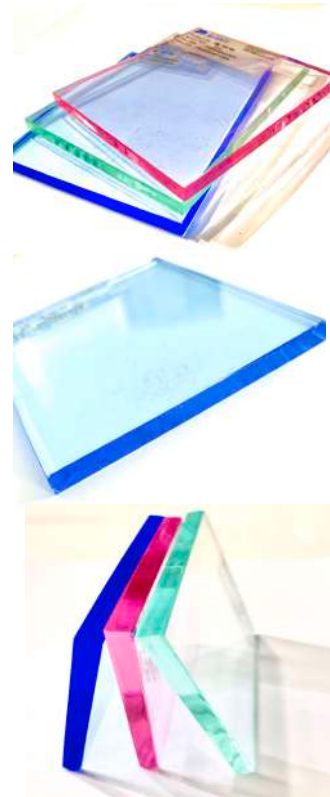
Edge colored acrylic

Vibrant edge colored acrylic

Edge colored cast acrylic panel is a specialty developed acrylic grade, which has a highly attractive colored edge finish in bright eye catching colours. Edge colored cast acrylic panel has exceptional chemical resistance, excellent clarity & optical properties, exceptional mechanical properties & rigidity, simple to fabricate, whilst meeting with the interior design trends in its attractive cosmetic appearance.

Edge colored cast acrylic is the perfect solution for eye catching POP displays:

- A wide variety of thicknesses & dimensions available.
- 10-year UV warranty, excellent UV stability.
- Good color range. **(color matching available)**
- High strength/mechanical properties.
- Excellent surface hardness, less prone to scratching.
- Easy to clean & maintain.
- Good optical properties.
- High Rigidity.
- Dimensionally stability.
- Light weight.
- Edge Acrylic with hard coated surfaces (Hard Coated 1 & 2 sides)



Noise Barrier Acrylic-

The long-term solution in noise reduction....

Acrylic Noise Barrier:

Noise Barrier acrylic has good optics, high rigidity, excellent acoustic reflective values, strength & unsurpassed weathering properties.

Advantages:

- Strength / mechanical properties
- Superior optical properties.
- Excellent noise reflection values.
- High Rigidity.
- Dimensionally stable (virtually nil reversion)
- Excellent UV stability (manufacturers guarantees available)
- Light weight

Surface Finish: Gloss & Satin/Anti-Reflective

Colour & Finishes:

- Clear, transparent/translucent & opaque colours , colour matching facilities.

Applications:

- Roads, Streets & Highways
- Private companies (EG. Petrol Stations & Shopping Centres)
- Property development
- Schools & Universities
- Wind & Fragment Barriers



Noise Barrier Acrylic-

The long-term solution in noise reduction....

The combination of functional and visually attraction makes Noise Barrier Acrylic panels an excellent choice for acoustic barrier applications on highways, bridges and railways. The transparency of the panels, opens the landscape for the road/rail user, whilst offering sound control and protection to the public (both residents and road users).

Features and benefits of Noise Barrier Acrylic panels

- Good weather and aging properties. (30-year UV guarantee on Clear)
- Excellent optical transparency
- Easy to clean and maintain
- Certified by Mfpa Leipzig to European standard (EN1793, EN 1794) & ZTV-Lsw 06.
- Easy to shape – thermoform into cosmetically pleasing shapes.
- Light weight – as opposed to glass alternatives.
- Good impact resistance.
- Strong surface hardness (as opposed to other plastic polymers)
- Long product life - (30-year UV guarantee on Clear)



Noise Barrier Acrylic-

The long-term solution in noise reduction....



Noise Barrier Acrylic-

The long-term solution in noise reduction....



Noise Barrier Acrylic-

The long-term solution in noise reduction....

Noise Barrier Acrylic:

Colour Availability:

Clear / transparent - tints / translucent & opaque colours.

Current Surface Finish:

- Gloss
- Matte finishes.

Size Range:

- 2000mm x 3000mm
- 2000mm x 4000mm
- 2000mm x 5000mm
- 2300mm x 4000mm

Standard available thicknesses:

15mm, 18mm, 20mm and 25mm

Masking:

- Paper
- PE film



Noise Barrier Acrylic (Filament Shard Retention)- The long-term solution in noise reduction....

Acrylic Noise Barrier (Filament Shard Retention)-

The combination of functional and visually attraction makes Noise Barrier acrylic panels an excellent choice for acoustic barrier applications on highways, bridges and railways. The transparency of the panels, opens up the landscape for the road/rail user, whilst offering sound control and protection to the public (both residents and road users).

Features and benefits of:

- Excellent optical transparency
- Superior weather and aging properties. (30-year UV guarantee on Clear)
- Fragment retention system safety for travelling public
- Built-in lines to protect bird strikes – lines visible to protect the native birdlife.
- Easy to clean and maintain
- Meets the European standards (EN1793, EN 1794, ZTV-Lsw 06)
- Easy to shape/thermoform into cosmetically pleasing curves.
- Light weight – against glass
- Long product life – (30-year UV guarantee on Clear)
- Good impact resistance.
- Strong surface hardness (as opposed to other plastic polymers)



Noise Barrier Acrylic (Filament Shard Retention)- The long-term solution in noise reduction....

Noise Barrier Acrylic (Filament Shard Retention):

Colour Availability:

Clear / transparent - tints / translucent & opaque colours.

Filament Colours:

Black, Clear/Natural

Current Surface Finish:

- Gloss
- Matte finishes.

Size Range:

- 2000mm x 3000mm
- 2000mm x 4000mm
- 2000mm x 5000mm
- 2300mm x 4000mm

Standard available thicknesses:

15mm, 18mm, 20mm and 25mm

Masking:

- Paper
- PE film



Noise Barrier Acrylic (Filament Shard Retention)- The long-term solution in noise reduction....



Acrylic block aquatic glazing-

Acrylic for transparent water retention.

Acrylic Aquatic Glazing (Aquarium & Swimming Pool) viewing panels:

Acrylic aquatic glazing is typically supplied in very thick cast acrylic blocks. Acrylic aquatic glazing is produced on dedicated production lines, due to the specific technology know-how for monolithic castings. Following the same high standards of production as acrylic aquatic glazing, with thicknesses being capable to be produced of 750mm (29.53") thick and production of sizes up to 3m x 9m.

Acrylic aquatic glazing hold the same outstanding optical clarity and distortion free appearance as our standard cast acrylic sheets, which make them an excellent choice for aquariums and all aquatic glazing as well as medical, architectural (cladding and decorative), museum displays, furniture, swimming pools and many more unique and custom designs.

Acrylic aquatic glazing offers excellent UV properties (30-year UV guarantee) enabling superior weatherability. As they are half the weight of glass and with higher impact resistance, The ease of fabrication, installation, cementing/bonding of acrylic aquatic glazing gives designers and architects maximum design potential for projects.

Acrylic aquatic glazing is generally compliant with ISO14001 environmental specifications, ensuring full traceability through all stages of production, packing and distribution.



Acrylic block aquatic glazing- Acrylic for transparent water retention.



Acrylic block aquatic glazing- Acrylic for transparent water retention.

Acrylic Aquatic Glazing (Aquarium & Swimming Pool) viewing panels:

Colour Availability: Clear

Surface Finish:

- Gloss
- Matte finish (Subject to confirmation – architectural projects)

Size Range:

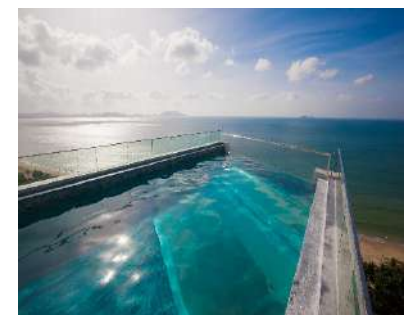
- 9300mm x 3000mm
- 7800mm x 3000mm
- 7300mm x 3000mm
- 6800mm x 3000mm
- 6300mm x 2800mm
- 6100mm x 2900mm
- 5300mm x 2800mm
- 5020mm x 2200mm
- 4900mm x 2500mm
- 4900mm x 2500mm
- 4800mm x 2900mm
- 3970mm x 1970mm
- Also standard 3000mm x 2000mm & 2440mm x 1220mm in lower thickness range.

Standard available thicknesses:

30mm – 750mm

Masking:

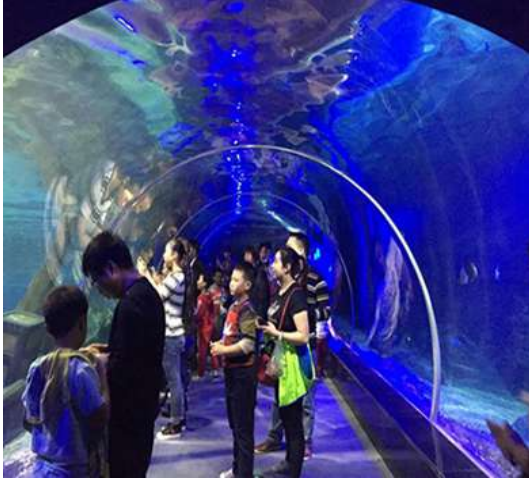
- PE film



Acrylic block aquatic glazing- Acrylic for transparent water retention.



Acrylic block aquatic glazing- Acrylic for transparent water retention.



Acrylic block aquatic glazing- Acrylic for transparent water retention.



Acrylic block aquatic glazing- Acrylic for transparent water retention.

(enter return to play each video)



Sanitaryware acrylic: Bathtubs, sinks, shower trays.

Sanitary grade cast “cross linked” acrylic sheets have been developed over numerous years to meet with the requirements of the European standard EN263. Sanitary grade cast acrylic is well suited for applications such as standard bathtub shapes, as well as more custom designs in the spa design, due to its excellent easy flow thermo-formability, the dimensional stability (limited reversion levels) & chemical resistance.

The unique features and benefits of Sanitary grade cast acrylic are:

- Reduced/lower moulding temperatures, less energy costs.
- Increased cycle times & efficiency.
- Exceptional chemical resistance.
- Cross linked cell cast, yet exceptional definition during the thermoforming process.
- Reduce wall thinning & internal stresses when thermoformed.
- Superb mechanical properties/strength.
- Excellent colour range availability.
- High gloss & matt/satin surface finish is available.
- Thermoformable masking options available.

Applications: Bathtubs, wash basins / sinks (bathroom & kitchen), shower trays & including the deep and intricate draw design for spas.



Acrylic substrates: Complimenting the environment...



Mechanical engineers, construction co., transport producers & POP / exhibition displays, all need to meet rising demands. Protective equipment has to offer durability, safety & security, whilst also providing an appearance that harmonizes with the application. That is why these professionals often choose acrylic sheet/block, for machine guards, glazing in the transportation & construction sector (aquariums & noise barriers), for ice-rink barriers in ice hockey stadiums, or in security applications in stores.

Acrylic substrates: Complimenting the environment...



Acrylic is one of the leading highest-quality & most versatile plastics. It can take general wear & tear workshop treatment & is easy to machine.

Acrylic sheets are used in a variety of different mixed applications, in the segments such as transport, signage, aquariums, swimming pools, furniture, exhibitions & POP, sanitary ware, domestic applications, with also commercial architecture & construction, industrial applications, and a wide range of lighting applications. The quality and distribution of light & energy efficiency with an LED light source are key requirements in modern lighting systems.

Acrylic is the ideal substrate to meet these requirements. Its properties – unsurpassed transparency & brilliance, with a variety of surfaces, ease of thermo-forming - meet majority of the technical & design requirements of lighting engineers & illuminated advertising/signage, lighting manufacturers & architects.

Acrylic substrates: Complimenting the environment...

- Acrylic materials can be safely used as a product group in applications with the demand on the market for compliance in all relevant health and safety aspects.
- Due to the manufacturing process, acrylic substrates contain no plasticizers, heavy metal salts or halogens, & no levels of chlorine. Acrylic basic chemical structures contain no nitrogen compounds or bisphenol A. Acrylic normally emits no toxic or cancerogenic, mutagenic, teratogenic, even in the application of above the service & distortion temperature (around 100 degrees Celsius).
- Due to the chemical chain structure, Acrylic does not definitely react with water & can be safely used in aquatic applications.
- Acrylic solid sheets are extremely resistant to normal mechanical methods during installation & in application.
- Acrylic solid sheets offer 11 times the impact strength of conventional domestic glass.

