

ACRYLITE® Acrylic Block for Specialty Glazing



Acrylite
ACRYLIC SHEET

ACRYLITE® acrylic block Applications

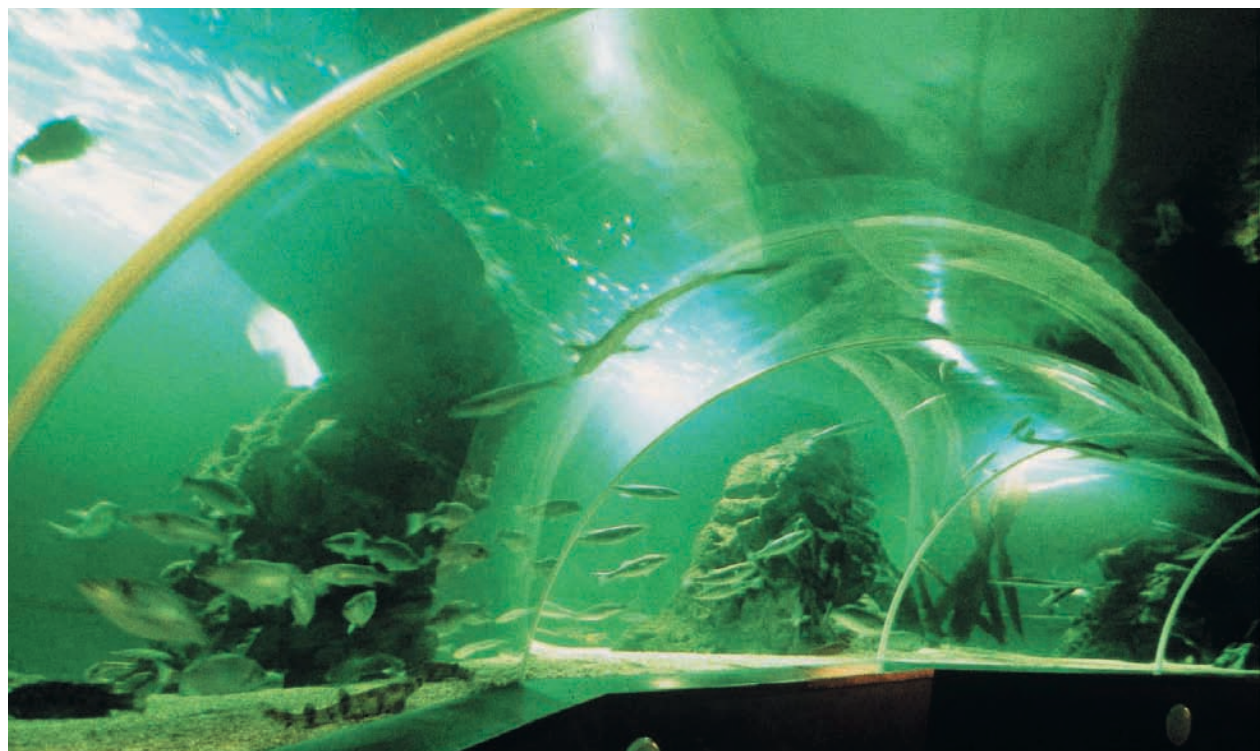


Aquariums

As an extremely large monolithic acrylic sheet, ACRYLITE block is the ideal material for aquarium construction, offering:

- a clear, distortion-free view in authentic colors
- ease of installation and care
- extremely high component stability and break resistance
- easy bonding of various structural components
- freedom from condensation due to good heat insulation

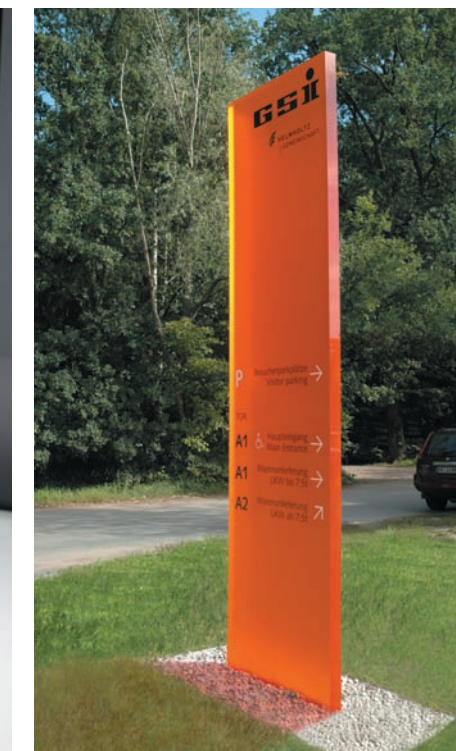
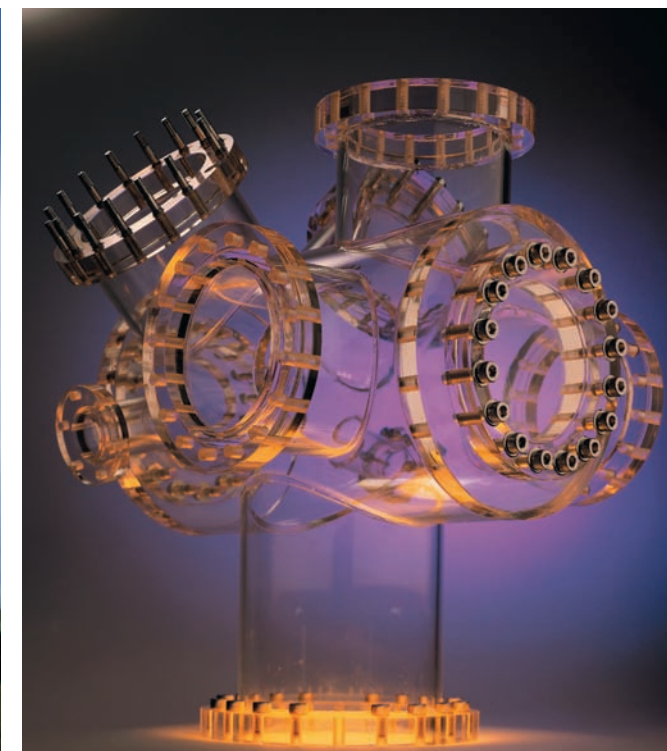
Curved sheets are easy to fabricate due to good thermoformability, offering a wide creative scope.



P-O-P Displays and Awards

ACRYLITE block makes a powerful statement when used for retail displays or awards. Its distortion-free view enhances the product or message without distracting from it. For store fixtures, awards or trophies, it presents:

- crystal clear or vibrant colors
- high mechanical and chemical resistance
- ease of complex fabrication



Light and Water Architecture

ACRYLITE block is a beautiful material for artistic structures, offering:

- colored block in transparent, translucent or fluorescent grades
- absolute colorlessness that lets the unique character of water and light shine through
- boundless potential for creative designs



Technical Applications

Protective glazing, milled parts, lenses – ACRYLITE block enables all these and many more, thanks to its:

- special optical properties
- high resistance to solvents and chemicals
- resistance to ballistic impact
- great ease of machining and thermoforming



Protective Glazing of Animal Enclosures

ACRYLITE block affords a clear view from both sides protecting animals and visitors alike. It is the ideal material for transparent barriers around animal enclosures in zoos and wildlife parks, due to:

- excellent permanent service properties
- outstanding break resistance



Art and Decoration

ACRYLITE block is also suitable for adding intriguing touches and awakening interest. It invites artists and designers to make creative use of the material through:

- brilliant lighting effects
- variety of colors
- easy machining and fabrication

ACRYLITE Certifications

Our ACRYLITE® acrylic block products offer you maximum safety.

In response to market demands for ACRYLITE block for extreme loads (e.g. pressure chambers, underwater applications), we offer ACRYLITE® GS acrylic block that meets the following certifications:

- SAFETY STANDARD FOR PRESSURE VESSELS FOR HUMAN OCCUPANCY ASME PVHO-1-2002
- European Pressure Equipment Directive
- Rules for Classification and Construction III Offshore Technology (Underwater Technology, Diving Systems) of Germanischer Lloyd

We will be pleased to furnish further information for specific projects.

ACRYLITE® acrylic block specialties

In addition to the grades listed in the product offering, a series of specialties are available with unique properties.

- ACRYLITE block can be manufactured in colors. This offers unlimited choices to architects, interior designers, furniture manufacturers and creative professionals in the arts or in advertising.
- ACRYLITE block can be provided in transparent, translucent and opaque variants according to the extensive range of colors offered for ACRYLITE® acrylic sheet.
- The standard production size is 118 to 79 inches (3000 x 2000 mm). Thicknesses up to 4 inches (100 mm) can be manufactured. Larger sizes and thicknesses are available on request.
- Clear and colored ACRYLITE block can be manufactured with one or two sided satin surfaces in size 118 to 79 inches (3000 x 2000 mm).

ACRYLITE block is also available with:

- increased resistance to solvents and chemicals
- UV-transmitting properties
- characteristics to meet special optical requirements

ACRYLITE® acrylic block

Specialty Glazing Range

ACRYLITE® acrylic block	Sizes [inches]	78.7" x 59.1"	118.1" x 78.7"	149.6" x 70.9"	196.9" x 78.7"	236.2" x 86.6"	236.2" x 118.1"	315.0" x 118.1"	Sizes [mm]
Clear OZ00 / OF00	Thickness 1.181 "	•	•	•	•	•	•	•	30 mm Thickness
	1.575 "	•	•	•	•	•	•	•	40 mm
	1.969 "	•	•	•	•	•	•	•	50 mm
	2.362 "	•	•	•	•	•	•	•	60 mm
	2.756 "	•	•	•	•	•	•	•	70 mm
	3.150 "	•	•	•	•	•	•	•	80 mm
Clear OF00	3.543 "	•	•	•	•	•	•	•	90 mm
	3.937 "	•	•	•	•	•	•	•	100 mm
	4.331 "	•	•	•	•	•	•	•	110 mm
	4.724 "	•	•	•	•	•	•	•	120 mm
	5.512 "	•	•	•	•	•	•	•	140 mm
	6.299 "	•	•	•	•	•	•	•	160 mm
	7.874 "	•	•	•	•	•	•	•	200 mm
Sizes [mm]	2000 x 1500	3000 x 2000	3800 x 1800	5000 x 2000	6000 x 2200	6000 x 3000	8000 x 3000		

For many existing and potential fields of application, there is one material – ACRYLITE® acrylic block.

Hardly any other material lends itself so easily to so many uses, while providing such outstanding properties as:

- high transparency and brilliance
- break resistance and compressive strength
- weather resistance

No wonder ACRYLITE® is the product of choice when it comes to specialty glazing.

- **Standard**
- **Manufactured to order**

At thicknesses of more than 4.7 inches (120 mm), sizes are slightly smaller due to the production process.

Larger and colored block is available on request.

® = registered trademark

ACRYLITE® is a registered trademark of Evonik CYRO LLC.
Evonik CYRO LLC is an Evonik Degussa Corporation group company.

Certified to ISO 9001:2000 (Quality)
and ISO 14001:2004 and RC 14001:2005 (Environment)

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Fire Precautions

ACRYLITE acrylic is a combustible thermoplastic. Precautions used to protect combustibles from flames and high heat sources should also be observed with this material. ACRYLITE acrylic usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will from other common combustible materials. We urge good judgment in the use of this versatile material.

ACRYLITE® is a registered trademark of Evonik CYRO LLC, an Evonik Degussa Corporation group company.

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