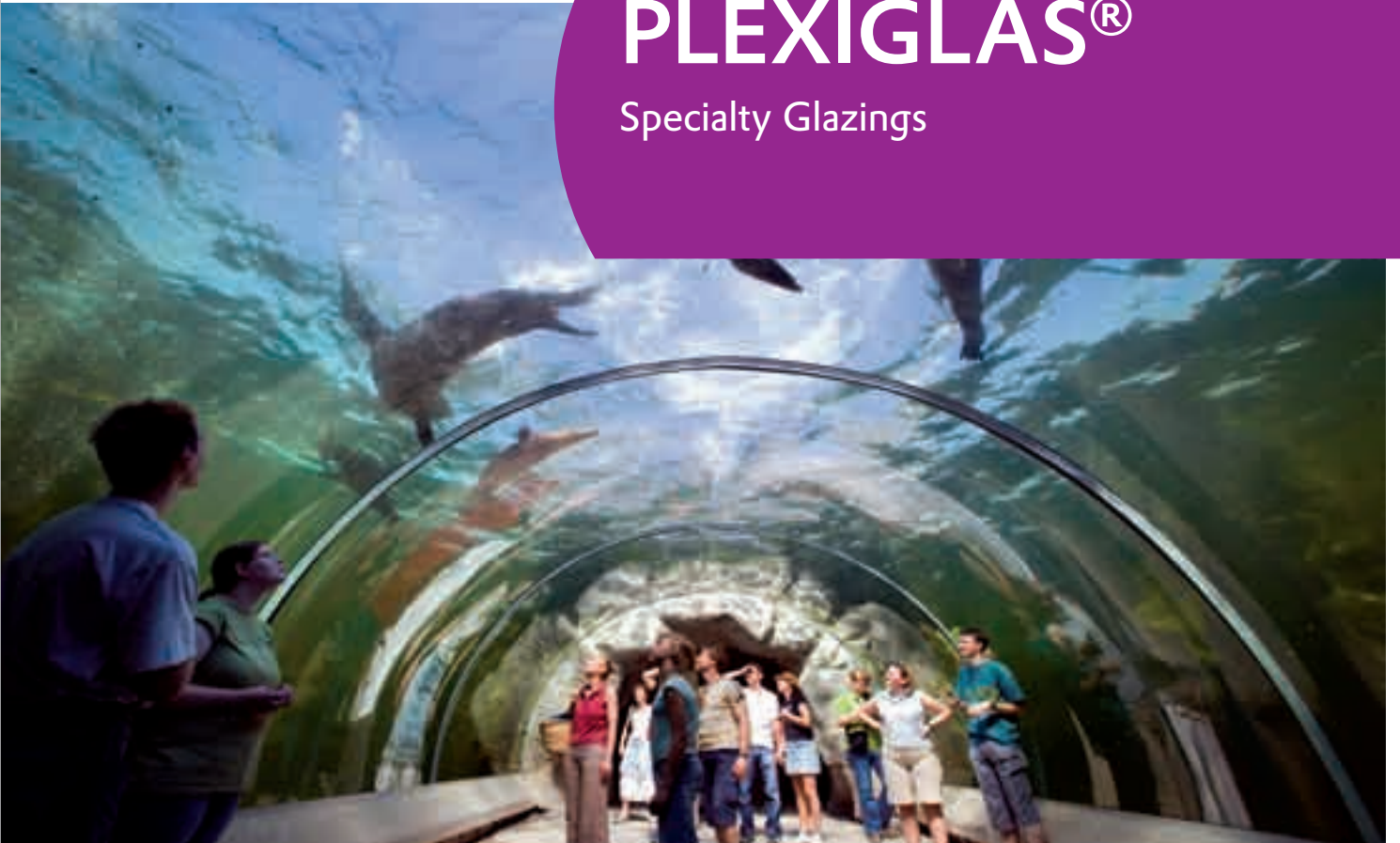


PLEXIGLAS®

Specialty Glazings



PLEXIGLAS® Applications



Aquariums

As an extremely large monolithic acrylic sheet, PLEXIGLAS® is the ideal material for aquarium construction. Flat sheets offer:

- 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 owing to their very good thermoformability, and offer wide creative scope.



Glazing of Pressure Equipment

PLEXIGLAS® is the first choice when it comes to withstanding high pressure. The arguments in its favor are the material's clear, distortion-free view, homogenous, monolithic character, and, most importantly, its certification by the appropriate bodies, e.g. Germanischer Lloyd or PVHO (USA).



Light and Water Architecture

PLEXIGLAS® is a beautiful material for artistic structures, with:

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



Protective Glazing of Animal Enclosures

PLEXIGLAS® protects animals and visitors alike, and affords a clear view from both sides. It is the ideal material for transparent barriers around animal enclosures

in zoos and wildlife parks, due to

- excellent permanent service properties
- and enormous break resistance.



Technical Applications

Protective glazing, milled parts, lenses – PLEXIGLAS® 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.



Art and Decoration

PLEXIGLAS® is also suitable for adding intriguing touches and awakening interest. Its

- brilliance, lighting effects,
 - variety of colors
 - and easy machining and fabrication
- invite artists and designers to make creative use of the material.



PLEXIGLAS® Certificates

We offer you maximum safety for our original PLEXIGLAS® block products.

In response to market requirements and in order to extend applications for PLEXIGLAS® blocks for extreme loads (e.g. pressure chambers, underwater applications), we provide PLEXIGLAS® GS blocks of examined quality with the corresponding certificates.

These certificates cover the following regulations and fields of application:

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

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



PLEXIGLAS® Specialties

In addition to the grades listed in the sales range, a series of specialties is available with very special properties:

PLEXIGLAS® blocks can also be manufactured in colored grades. This offers almost unlimited choice to architects, interior designers, furniture manufacturers and creative professionals in the arts or in advertising.

PLEXIGLAS® blocks can be provided in all transparent, translucent and opaque variants according to the extensive range of colors for PLEXIGLAS® sheets.

The standard production size is 3000 x 2000 mm. Thicknesses up to 100 mm can be manufactured. Larger sizes and thicknesses are available on request.

- Clear and colored PLEXIGLAS® blocks can be manufactured with one or two satin surfaces in size 3000 x 2000 mm.
- PLEXIGLAS® blocks are also available with increased resistance to solvents and chemicals.
- We also provide UV-transmitting PLEXIGLAS® blocks, as well as
- blocks for special optical requirements.

PLEXIGLAS® Range Specialty Glazings

Sizes [mm]		2000 x 1500	3000 x 2000	3800 x 1800	5000 x 2000	6000 x 2200	6000 x 3000	8000 x 3000
PLEXIGLAS® GS Clear 0Z00 / 0F00	Thickness 30 mm	●	●	●	●	●	●	●
	40 mm	●	●	●	●	●	●	●
	50 mm	●	●	●	●	●	●	●
	60 mm	●	●	●	●	●	●	●
	70 mm	●	●		●	●	●	●
	80 mm	●	●		●	●	●	●
PLEXIGLAS® GS Clear 0F00	90 mm	●	●		●	●	●	●
	100 mm	●	●		●	●	●	●
	110 mm	●	●		●	●	●	●
	120 mm	●	●		●	●	●	●
	140 mm	●	●		●	●	●	●
	160 mm	●	●		●			
	180 mm	●	●		●			
	200 mm	●	●		●			

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

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 PLEXIGLAS® convinces users particularly when it comes to specialty glazings.

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

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

Larger and colored blocks are available on request.

® = registered trademark

PLEXIGLAS is a registered trademark of
Evonik Röhm GmbH, Darmstadt, Germany.

Certified to DIN EN ISO 9001 (Quality)
and DIN EN ISO 14001 (Environment).

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

422-9/2/0508/en



Performance Polymers
Business Unit

Evonik Röhm GmbH

Kirschenallee
64293 Darmstadt
Germany

info@plexiglas.net
www.plexiglas.net
www.evonik.com

Evonik. Power to create.