



The Fascinating
World of PLEXIGLAS®

PLEXIGLAS®

A Lifelong Fascination

2

You meet PLEXIGLAS® every day, all your life. It provides a clear view, lends shape and brilliance to a variety of objects, protects against rain, hail and stormy weather, withstands extreme pressure and heat, is break-resistant and faithfully reflects the world in all its color. Besides these properties, it is environmentally friendly and can be recycled after careful separation from other materials. Thanks to its high functionality and many special grades, PLEXIGLAS® is surprisingly adaptable to new applications that call for novel properties.

PLEXIGLAS® has made a name for itself in items that make life easier and safer, more varied and exciting, and that need to meet very stringent requirements.

The Business Unit Performance Polymers of Evonik Industries is a leading global supplier of acrylics. Our wide range and high quality standards are a reliable basis for our business and that of our customers. With our large number of specialties, developments and customer partnerships, we shape tomorrow's markets.

Customer proximity, every day and everywhere

Our products and know-how are available all over the world, whether directly, via our global distribution network, regional distributors or skilled fabricators.

From aircraft construction and aircraft cabin windows to monitors and displays, as structural glazing, in noise barriers or in advertising, PLEXIGLAS® offers the tailor-made, durably brilliant solution you are looking for.

Feel free to contact us!



A Reliable Specialist

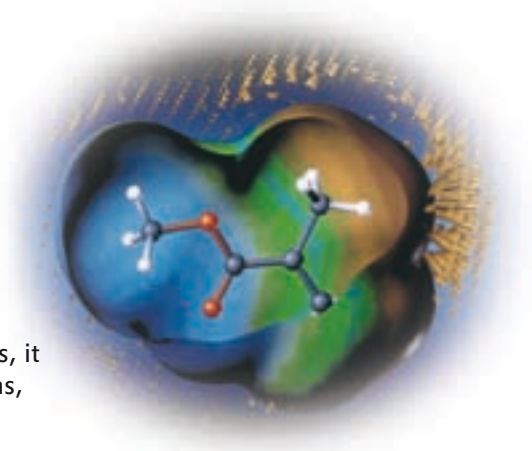
PLEXIGLAS® is one of the world's most precious and versatile plastics. It can be manufactured with many different functional properties and surfaces, offering high light transmission, light diffusion, sight screening, heat reflection, graffiti repellence, heat insulation, sound reflection, and so on ...

The choice of PLEXIGLAS® for building the roof of the Olympic stadium in Munich was a dream come true, not just for designers, and the embodiment of safety. Only specific types of safety glazing are allowed for overhead glazing. PLEXIGLAS® sheets meet these requirements. PLEXIGLAS® is much more break-resistant than glass, as well as being safer, lighter in weight, more transparent and formable.

Weather resistance and transparency ensure a long service life for PLEXIGLAS® in many applications. It is therefore the ideal material for all outdoor projects. Whereas other plastics soon shows signs of wear, PLEXIGLAS® stays as clear as on the very first day, for years and decades.

PLEXIGLAS® is characterized by elegance, brilliance and color consistency. With these attributes, it draws attention to all indoor items, messages and designer objects.

Products from the Performance Polymers Business Unit are provided in many forms, as solid sheet, multi-skin sheet, corrugated sheet, blocks, tubes and rods.



The monomer methyl methacrylate, the smallest unit of PLEXIGLAS®

For more information, go to:
www.plexiglas.net



PLEXIGLAS®

Boundless Creativity

4

The world is full of emotions. While we may argue on a rational level, our decisions are increasingly based on feelings.

Successful design often plays a crucial role. Can there be any better solution than PLEXIGLAS®?

Creative and design professionals from the spheres of advertising, shopfitting and exhibition booth construction, interior design and furniture-making know the score. PLEXIGLAS® objects catch the eye and retain interest, whether in transparent form, translucent and light-diffusing, edge-lit or brilliant grades. That applies to exhibition booths,

advertising displays, elegant shelves and accessories alike.

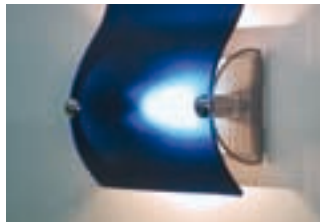
PLEXIGLAS® plays with light in illuminated signs, luminous walls and lamps. Items with a maximum "Wow!" factor are made from PLEXIGLAS® blocks that refract the light.

However, the material can also have the appearance of stone. In that case, its name is PLEXICOR®, and it is just as easy to saw, drill, mill and form as PLEXIGLAS®.





It's Magic



- PLEXIGLAS® corrugated sheet
- PLEXIGLAS truLED®
- PLEXIGLAS SATINICE® SC/DC
- PLEXIGLAS® Satin Ice
- PLEXIGLAS® MULTICOLOR
- PLEXIGLAS Gallery®
- ACRIFIX® adhesive systems
- PLEXICOR®
- PARAPAN®
- PLEXIGLAS® textured sheet
- PLEXIGLAS® tubes and rods
- PLEXIGLAS® multi-skin sheet
- PLEXIGLAS® EndLighten
- PLEXIGLAS® blocks
- PLEXIGLAS® Fluorescent
- PLEXIGLAS RESIST®
- PLEXIGLAS® RADIANT
- PLEXIGLAS® Sterling
- PLEXIGLAS® Crystal Ice



PLEXIGLAS®

Make Your Home a Haven

6

Come storms or hail, frost or heatwaves, PLEXIGLAS® defies any weather and makes for a cozy atmosphere. And doesn't your home deserve the best you can get?

The same applies to safety. Used as break-resistant roof glazing, it removes the risk of slivers raining down, and reliably bears wind pressure and snow loads.

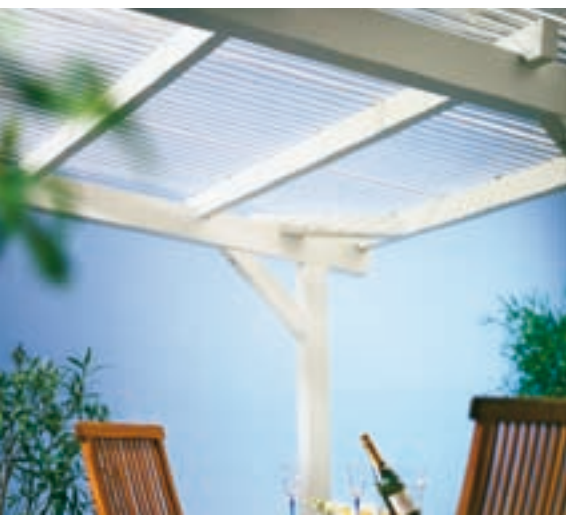
What's more, it looks brilliant for many years and decades.

Are you particularly interested in protection from the summer heat? Or hail resistance in inclement weather? Is a warm, cozy atmosphere in winter your top priority? Or are you more interested in light transmission? Sight screening? High transparency?

PLEXIGLAS® offers you all these – take your pick!

It's up to you whether you want to enhance your home with a patio roof, carport or conservatory, add an attractive parapet to your balcony or banister to your stairs, or just install injury-proof door glazing.

Private Construction



- PLEXIGLAS® multi-skin sheet
- PLEXIGLAS® corrugated sheet
- PLEXIGLAS RESIST®
- PLEXIGLAS® standard sheet
- PLEXIGLAS SATINICE®
- PLEXICOR®
- PLEXIGLAS® blocks
- PLEXIGLAS® textured sheet
- PLEXIGLAS® rods and tubes





Architectural Projects

Gracefulness and Safety Go Hand in Hand

PLEXIGLAS® gives concrete shape and long life to roofs, structural glazing, interior design and decorative items of modern and daring design. PLEXIGLAS® meets design requirements with the greatest of ease and almost unlimited formability.

Where many people are employed or on the move, safety has the highest priority. PLEXIGLAS® is approved for overhead glazing, passes tests for glazing offering protection against falling, and remains brilliant and highly transparent for a very long time.

The heavy-duty, solid-surface material PLEXICOR® makes for design paired with hygiene wherever cleanliness has top priority.

In the event of fire, PLEXIGLAS® can save lives and property because it burns almost without smoke and gives off no toxic smoke gases. Fire-fighting teams can get to the seat of fire quicker, and escape routes remain more visible.

7





PLEXIGLAS®

A Tough Customer for Demanding Applications

8

PLEXIGLAS® can take a lot. It is eleven times more break-resistant than glass, and simply absorbs UV radiation. That preserves the value of pictures and art objects.

In ice-hockey stadiums, PLEXIGLAS® protects spectators from being hit by pucks, and in public or large aquariums, thick PLEXIGLAS® blocks guarantee that people and sharks both keep their distance, in their mutual interest.

- PLEXIGLAS® blocks
- PLEXIGLAS RESIST®
- PLEXIGLAS Gallery®
- PLEXIGLAS® standard sheet
- PLEXIGLAS® tubes and rods

For tougher applications, PLEXIGLAS RESIST® offers even greater strength, like when it comes to combating vandalism, or protecting people from injury by machines and conveyors. PLEXIGLAS RESIST® proves its worth every day in demanding environments. It offers an ideal combination of impact strength and UV resistance.

Electrically conductive PLEXIGLAS® makes production safer in highly sensitive, ultraclean processes.

In shopfitting and exhibition booth construction, PLEXIGLAS® excels thanks to its excellent formability, surface hardness, hygiene and appearance.

Protective Glazing





Mobility & Energy **Inspiring Ideas**

Noise Barriers made of PLEXIGLAS SOUNDSTOP®

Transport of passengers and goods on rails and roads has become an integral part of our modern society. However, every traffic inevitably causes noise. Noise barriers made from PLEXIGLAS® make an effective and esthetic contribution to reducing noise emissions. The reflection of sound at the barrier made of PLEXIGLAS SOUNDSTOP® leads to a considerable reduction in noise level in the area behind the barrier. Being transparent, this material gives a clear view from both side

Aircraft and Automotive Glazing

Aircraft glazing was one of the first applications for cast PLEXIGLAS®. It offers outstanding optical properties, is lightweight, resists temperature changes, has excellent mechanical properties, is easy to form and polish and thus the ideal product for this application. The product has gained an excellent reputation both in civil and military aviation over the course of the decades. Typical applications are cabin windows, cockpit glazing and glider canopies, but also helicopter glazing and canopies, and windshields for fighter planes. In the automotive sector PLEXIGLAS® is used for motorbike windshields and caravan windows.

9



- PLEXIGLAS® blocks
- PLEXIGLAS SOUNDSTOP®
- PLEXIGLAS RESIST®
- PLEXIGLAS® standard sheet
- PLEXIGLAS® aircraft materials



For more information, go to:
www.plexiglas.net



PLEXIGLAS®

Light without Shade

10

Light puts color into our lives. It makes sure we feel good and stay informed. Light influences our mood.

PLEXIGLAS® shows its strengths particularly in combination with light. Its unsurpassed transparency and brilliance make PLEXIGLAS® an indispensable material for optical and technical applications.

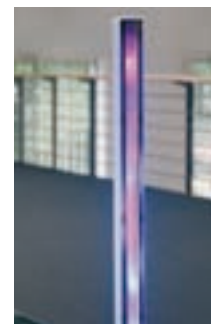
The unlimited choice of colors offers a kaleidoscope of scintillating hues and effects and creates soft, pleasant

lighting in combination with light-diffusing, velvety surfaces. PLEXIGLAS® guides light wherever you want it, completely and without light loss.

PLEXIGLAS® also shows its toughness and transparency to best advantage in equipment construction and displays, which remain perfectly legible for a long time to come.

- PLEXIGLAS Satin Ice
- PLEXIGLAS® EndLighten
- PLEXIGLAS® standard sheet
- PLEXIGLAS® tubes and rods
- PLEXIGLAS® RADIANT

Light / Optics / Technology





Baths / Wellness / Health

Oases of Peace

Wellness, beauty, leisure activities. Our body demands rest phases, a modicum of maintenance and exercise to offset our sedentary occupations. Sometimes, we just feel in need of a little pampering.

Today, many people find relaxation in baths and solariums. Sport is a healthy way of unwinding.

PLEXIGLAS® is indispensable in these areas. It feels pleasantly warm to the touch, has an easy-care

surface, and is excellently suited for use in bathtubs, shower bases and partitions. PLEXICOR®, which looks like stone yet exudes an aura of warmth, makes using washbasins and consoles a stylish, tactile experience.

In tanning bed canopies, PLEXIGLAS® ensures that only the rays responsible for bronzing are transmitted, and protects us from harmful UV radiation.

11

- PLEXIGLAS® textured sheet
- PLEXIGLAS SUNACTIVE®
- PLEXICOR®
- PARAPAN®
- PLEXIGLAS® SW SAFE
- PLEXIGLAS RESIST® SW



For more information, go to:
www.plexiglas.net

Properties & Physical Forms

PLEXIGLAS SOUNDSTOP®



Properties:

- sound-reflecting, break-resistant, highly transparent
- extruded or cast transparent grades
- cast non-transparent grade
- in Clear, seven transparent and five non-transparent colors
- available with embedded polyamide threads for sliver retention
- various functional surfaces available

Physical forms:

- solid sheets in 15, 20 and 25 mm (transparent elements) or 12 mm thickness (non-transparent elements)
- standard sizes:
 - extruded version: 2,000 mm width, up to 6,000 mm length
 - cast version: 2,000 mm width, length: 2,500, 3,000, 4,200, 5,000 mm
- special sizes on request

PLEXICOR®



Properties:

- for worktops and items in furniture-making, trade-show booth construction and shopfitting
- cast, mineral-filled acrylic
- perfectly smooth, homogenous, food-compliant, resistant to abrasion and chemicals, machinable, thermoformable, bondable like PLEXIGLAS®

Physical forms:

- in five ranges with 45 plain or patterned colors
- size: 3,070 x 760 mm, width up to max. 1,250 mm on request, thicknesses: 6, 8, 10, 13 and 19 mm
- both surfaces polished, one service side with satin matte finish (polishable)

12

PLEXIGLAS® Tubes and Rods



Properties:

- large range for model-making and laboratory applications, furniture-making and luminaires, shopfitting and tradeshow booth construction ...
- high-gloss or polished or matte (DF) surfaces
- easy to machine and polish, controlled thermoforming or forming
- special grades are easy to produce

Physical forms:

- PLEXIGLAS® XT tubes: Ø from 5 - 300 mm
- PLEXIGLAS® Satin Ice: Ø from 50 - 200 mm
- PLEXIGLAS® GS tubes:
 - 300, 457 and 650 mm diameter
- PLEXIGLAS® XT round rods: Ø from 2 - 50 mm
- PLEXIGLAS® GS round rods: Ø from 15 - 100 mm
- PLEXIGLAS® GS square rods: 8 thicknesses/widths from 20/20 - 50/50 mm

PLEXIGLAS® GS and XT Solid Sheets



Properties:

- unsurpassed resistance to aging and weathering
- highly transparent (Clear: 92% light transmission)
- brilliant and break-resistant
- easy to machine

Physical forms:

- approx. 50 (GS) or 30 (XT) standard colors in stock
- thicknesses: 2.5 to 120 mm (GS) and 1.5 to 25 mm (XT)
- sizes GS: 3,050 (3,000) x 2,030 (2,000) mm
- sizes XT: 3,050 x 2,050 mm

PLEXIGLAS® Corrugated Sheet



Properties:

- tough, easy to machine, easy to install due to impact-modified acrylic
- flexural strength: ideal for paneling/glazing/roofing
- unsurpassed aging and weather resistance

Physical forms:

- width 1,045 mm, length up to 7,000 mm
- approx. 3mm thick
- Clear and Brown transparent
- heat-shield variants in Opal and Grey transparent
- surface smooth or with two textures
- other colors on request

PLEXIGLAS SUNACTIVE®



Properties:

- UV-absorbing for aggressive UV spectrum
- highly transparent (transmission 92%) or colored
- for tanning bed canopies

Physical forms:

- thicknesses: 3-8 mm
- customer-specific sizes
- Clear and transparent colors

PLEXIGLAS® Textured Sheet



Properties:

- sheet range with surface texture on one or both sides for balcony glazing, panels, partitions, shower partitions, furniture items ...
- approved as safety glazing
- unsurpassed resistance to aging and weathering
- lightweight and break-resistant
- easy to machine and install

Physical forms:

- 6 colors
- 10 textures: Classic in 8 textures, Trend in 2 textures
- sizes: depending on grade, e.g. 3,050 x 2,030 or 2,050 x 1,650 mm
- thickness: depending on grade, 3, 4, 6, 8 mm
- other sizes, thicknesses and colors on request

Accessories



- adhesives for PLEXIGLAS® with different properties for many fields of application and processing methods
- assembly systems for correct installation of PLEXIGLAS®
- repair kits for PLEXIGLAS® sanitaryware acrylic

PLEXIGLAS® Multi-Skin Sheet



Properties:

- tough, easy to machine, easy to install due to impact-modified PLEXIGLAS®
- flexural strength at low weight: optimized load-bearing capacity for roofing ...
- ... but also advantageous for creative interior applications, partitions, furniture ...
- unsurpassed resistance to aging and weathering

Physical forms:

- double- and quadruple-skin sheets
- in 8, 16 and 32 mm thickness
- lengths up to 7,000 mm
- widths 980, 1,200 and 1,220 mm
- Clear, White, C texture
- heat-shield variants in Opal and Grey transparent

PARAPAN®



Properties:

- high-gloss solid acrylic sheets for furniture fronts in store fixtures, kitchens, surgeries, hotels
- unsurpassed colorfastness, UV-resistant, resistant to aging and weathering
- easy to saw, drill, mill, polish and thermoform

Physical forms:

- 17 colors
- thicknesses: 18 mm for solid applications, 4 mm for installation in profiles
- sizes: as agreed

Properties & Physical Forms

PLEXIGLAS® Blocks



Properties:

- clear, distortion-free view of authentic colors
- extremely high component strength and break resistance
- very good machining and thermoforming properties
- homogenous, monolithic material with optimum permanent service properties

Physical forms:

- sizes up to 8,000 x 3,000 mm
- thicknesses up to 200 mm
- clear and colored blocks
- blocks with special properties
- certified for applications under water and under pressure

PLEXIGLAS® EndLighten



Properties:

- for ultraslim displays and illuminated signs
- light fed in via the sheet edge
- uniform light distribution
- minimum light loss and highest transparency (> 91%)
- neutral color
- UV-resistant

Physical forms:

- sheet size 3,050 x 2,050 mm
- sheet thicknesses 6, 8, and 10 mm
- special thicknesses and cut-to-size sections on request

14

PLEXIGLAS Gallery®



Properties:

- group of clear sheet grades with highest UV protection for glazing pictures, art objects and exhibits
- protection from fading and yellowing
- only half the weight of silicate picture glass, but up to 11 times more break-resistant
- easy and safe to machine and install

Physical forms:

- grade UV 100: size 3,050 x 2,050 mm in 2 and 3 mm thickness
- grade UV 100 AR (=antireflective surface): size 3,050 x 2,050 mm in 1.5, 2 and 3 mm thickness
- grade UV 100 AS (= antistatic): size 2,438 x 1,219 mm in 3 mm thickness
- grade UV 100 MR (=mar-resistant): size 2,438 x 1,219 mm in 3 mm thickness

PLEXIGLAS SATINICE®



Properties:

- complete range of satin (matte) sheets with manifold properties
- wide range of colors and thicknesses
- applications: furniture, shop fittings, tradeshow booths, luminaires and lighting engineering, displays and dispensers

Physical forms:

- PLEXIGLAS SATINICE® SC and DC: in 3-20 mm thickness in standard size 3,050 x 2,030 mm, from 25mm thickness in size 3,000 x 2,000 mm

PLEXIGLAS® Fluorescent



Properties:

- brilliant, luminous edges with high optical transparency
- harmonious combination of trendy colors
- brilliant, glossy surfaces
- excellent fabricating properties
- UV-resistant

Physical forms:

- sheet size 3,050 x 2,030 mm
- sheet thicknesses 3 and 6 mm
- special thicknesses and colors on request

PLEXIGLAS RESIST®



Properties:

- complete range of impact-modified PLEXIGLAS®
- unites the UV and weather resistance of PLEXIGLAS® with high/highest impact strength
- applications: protective glazing (machine guards, ice hockey stadiums), vehicle glazing (windshields), signage (protection against vandalism)

Physical forms:

- 5 grades with different degrees of impact strength
- variety of individual colors
- thicknesses up to 25 mm
- standard sizes 2,050 x 3,050 mm

PLEXIGLAS® Aircraft Materials



Properties:

- highest optical quality
- very good aging resistance
- highly transparent
- high UV resistance

Physical forms:

- PLEXIGLAS® GS 245
- thicknesses up to 25 mm
- standard size 3,050 x 2,030 mm
- PLEXIGLAS® GS 249
- thicknesses up to 85 mm
- various sizes

PLEXIGLAS® RADIANT



Properties:

- changes its color depending on the viewing angle
- uses ambient light to create its own lighting effects
- produces mirror-like reflections
- shines in every color of the rainbow
- is easy to saw, mill, drill, bend and polish
- can be thermoformed into almost every desired shape

Physical forms:

- sheet size: 2,438 x 1,219 mm
- thickness: 3 mm

PLEXIGLAS® Sterling



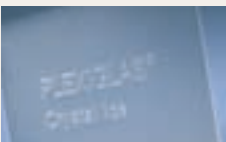
Properties:

- metallic gloss surfaces on one side or both sides
- the metallic surfaces provide a superior, high-class effect on both clear and colored PLEXIGLAS®
- on clear substrate material, luminous engravings look very noble
- sheets with a clear PLEXIGLAS® layer on one side create a very special deep-view effect
- can be routed, drilled, sawed, formed and bonded just like all standard PLEXIGLAS® grades

Physical forms:

- Gold-Clear
- Gold-Black-Gold
- Silver-Clear
- Silver-Black-Silver
- sheet size: 3,050 x 2,050 mm
- sheet thickness: 3 mm

PLEXIGLAS® Crystal Ice



Properties:

- extends the family of satin PLEXIGLAS® products and adds a selection of thin sheets
- optionally available with satin, light-diffusing surfaces on one side (SC) or both sides (DC)
- excellent mar resistance, less sensitive to scratches and traces of everyday wear
- can be sawed, routed, drilled, formed and bonded like all extruded products in the PLEXIGLAS® standard range

Physical forms:

- Clear SC
- Clear DC
- Black SC
- Black DC
- sheet size: 3,050 x 2,050 mm
- sheet thickness: 2, 3, and 4 mm

® = registered trademark

PLEXIGLAS,
PLEXIGLAS SATINICE,
PLEXIGLAS RESIST,
PLEXIGLAS HEATSTOP,
PLEXIGLAS ALLTOP,
PLEXIGLAS Gallery,
PLEXIGLAS SOUNDSTOP,
PLEXIGLAS SUNACTIVE,
PARAPAN,
PLEXICOR,
ACRIFIX

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EVONIK
INDUSTRIES

Business Unit
Performance Polymers

Evonik Röhm GmbH
Kirschenallee
64293 Darmstadt
Germany

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

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