

The Shape of Your Imagination

PLEXIGLAS® Tubes and Rods





We have reinvented creativity.

Opposites attract. PLEXIGLAS® is simultaneously strong and pliable, subtle and straightforward, striking and unobtrusive. It offers unsurpassed quality, a multitude of applications and great ease of fabrication. This makes it a source of inspiration for artists and fabricators alike.

The Original

PLEXIGLAS® was invented 70 years ago by Dr. Otto Röhm, and has since then shown its mettle in countless applications.

The Business Unit Performance Polymers of Evonik Industries is a leading global player, and its acrylics products are manufactured at state-of-the-art facilities.

The product range extends from PLEXIGLAS® solid sheets via films, multi-skin sheets, corrugated sheets and mineral-based materials up to tubes and rods. What is more, our PLEXIGLAS® specialties open up a never-ending series of new applications and business fields for customers and designers.





The One and Only

Not everyone who says "PLEXIGLAS" means PLEXIGLAS®, because there is a subtle difference. Only the original, with the PLEXIGLAS® trademark, possesses the inimitable properties that have made this material a classic the world over:

transparent

Simply the best: Clear PLEXIGLAS® has unsurpassed light transmission of 92%. That far exceeds the value of other plastics or silicate glass.

break-resistant

When the going gets tough... PLEXIGLAS® is eleven times more break-resistant than silicate glass, and withstands hard knocks and rough treatment.

weather-resistant

We guarantee that clear-transparent solid sheets, multi-skin sheets, corrugated sheets, blocks, tubes and rods

marketed under the PLEXIGLAS® trademark will show no yellowing and will retain a high level of light transmission for 30 years.

formable

An intelligent material knows when to give in – PLEXIGLAS® is cold-curvable and can be thermoformed virtually without limits.

colorfast

Sumptuous hues throughout its service life – PLEXIGLAS® colors show unexcelled brilliance and fastness to light, without any yellowing or fading.

lightweight

As light as a feather – PLEXIGLAS® weighs only half as much as silicate glass. Ordering, transportation and fabrication are also unexpectedly easy.

brilliant

PLEXIGLAS® has completely smooth surfaces of jewel-like brilliance. Its edges can also be polished to a high gloss.

light-guiding

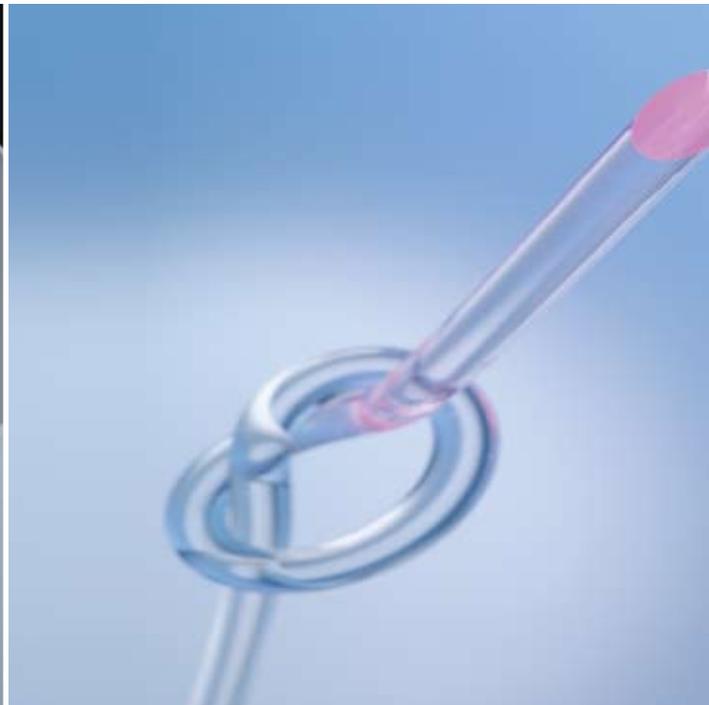
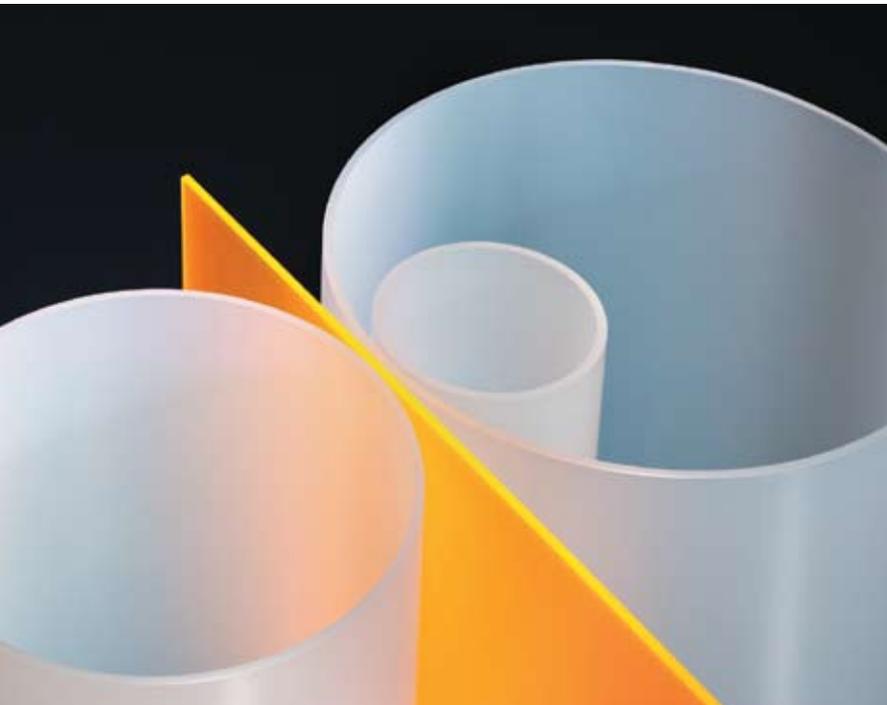
Let there be light! Owing to its transparency and clarity, PLEXIGLAS® is the perfect light guide.

suitable for food contact

Good enough to eat – PLEXIGLAS® is approved for food-contact applications. It is hygienic and easy to clean.

The Possibilities

Through their versatile properties, PLEXIGLAS® tubes and rods offer great scope for creative ideas and lend themselves to any application imaginable. PLEXIGLAS® has already proved the classic material for a wide range of uses.



A Well-Rounded Range of Immediate Availability.

World champion in PLEXIGLAS® tube extrusion with over 100 varieties available from stock; large diameters up to 500 mm now also available on request.

PLEXIGLAS® tubes and rods in different sizes are suitable for both technical and decorative applications. That is why we offer a wide standard range that can be delivered without delay.

On request from customers, we also manufacture tubes and rods in individual sizes and with particular properties, such as a higher heat deflection temperature.





The Range

We offer tubes with diameters from 5 to 650 mm, in lengths up to 4,000 mm as well as grades of different color and with different properties and surfaces.

The range of square and round rods comprises diameters or edge lengths of 2 to 100 mm, and lengths up to 2,000 mm.

Clear PLEXIGLAS® tubes and rods

form the basis of the range, which is rounded off by the following specialties. Their properties and shapes can be combined with each other at will.

Colored PLEXIGLAS® tubes and rods

exist in transparent, translucent, fluorescent and opaque shades. Corporate identity colors complete the range.

PLEXIGLAS® Satin Ice tubes and rods

have a high-class, velvety surface. Their excellent light diffusion paired with high light transmission means they offer undreamt-of possibilities for modern lighting design.

PLEXIGLAS RESIST® tubes and rods

are characterized by increased impact strength and break resistance. They are particularly suitable for applications calling for very tough materials.



Some materials simply cannot be improved. But they can be perfected by their application.

The outstanding properties of PLEXIGLAS® tubes and rods, such as their transparency, brilliance, light transmission and especially their smooth surface, enable a huge number of functional and creative applications.

With PLEXIGLAS® tubes and rods, you can ...

provide a clear view of important details in model building.

PLEXIGLAS® has already proven very suitable for this method of demonstrating technical processes.

happily combine different styles of furniture.

Being very unobtrusive, PLEXIGLAS® underscores the effect of other materials and gives a light and airy overall impression.

design luminaires that shed the best possible light.

Depending on grade, PLEXIGLAS®

has high light transmission and diffusion, and its impact strength makes it particularly suitable for outdoor lighting.

create mouthwatering food displays.

PLEXIGLAS® is approved for this application and shows off all types of foods in their natural, appetizing colors.

provide an elegant setting for boutique merchandise.

With its innate brilliance, PLEXIGLAS® is especially suited for

presenting high-class products in a fitting manner.

give center stage to trade show exhibits.

PLEXIGLAS® has a subtly eye-catching effect, and its break resistance protects exhibits from external influences.



A classic material is one that can be constantly reinterpreted.

PLEXIGLAS® tubes and rods offer virtually unlimited machining and fabricating options.

The tubes and rods can be shaped at will, at forming temperatures of 160° to 180°C (depending on grade). Curving and line-bending are just as easy as the forming of knots. Given the correct temperature and time, the material always retains its excellent properties, particularly its superb surface.

Machined edges and surfaces can be high-gloss polished by conventional methods (sanding and polishing) or using diamond cutters.

PLEXIGLAS® tubes and rods can be joined using ACRIFIX® adhesives, clamps or flanges, as well as by screw union.

During machining (cutting, drilling, turning, milling and sanding), it is important to use high-speed machines and tools suitable for PLEXIGLAS® in order to obtain optimal results.

Detailed hints on fabrication can be found in our technical data sheets on PLEXIGLAS® tubes and rods, as well as in our guidelines for workshop practice, which we will be pleased to send you on request.



® = registered trademark

PLEXIGLAS, PLEXIGLAS RESIST
are registered trademarks of Evonik Röhm GmbH,
Darmstadt, Germany.

Certified to DIN EN ISO 9001 (quality)
and DIN EN ISO 4001 (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, also 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.

Ref-No. 411-21 April 2008
XX/0408/09583 (en)



EVONIK
INDUSTRIES

Business Unit
Performance Polymers

Evonik Röhm GmbH
Kirschenallee
64293 Darmstadt
Germany
info@plexiglas.net
www.plexiglas.net
www.evonik.com

Evonik. Power to create.