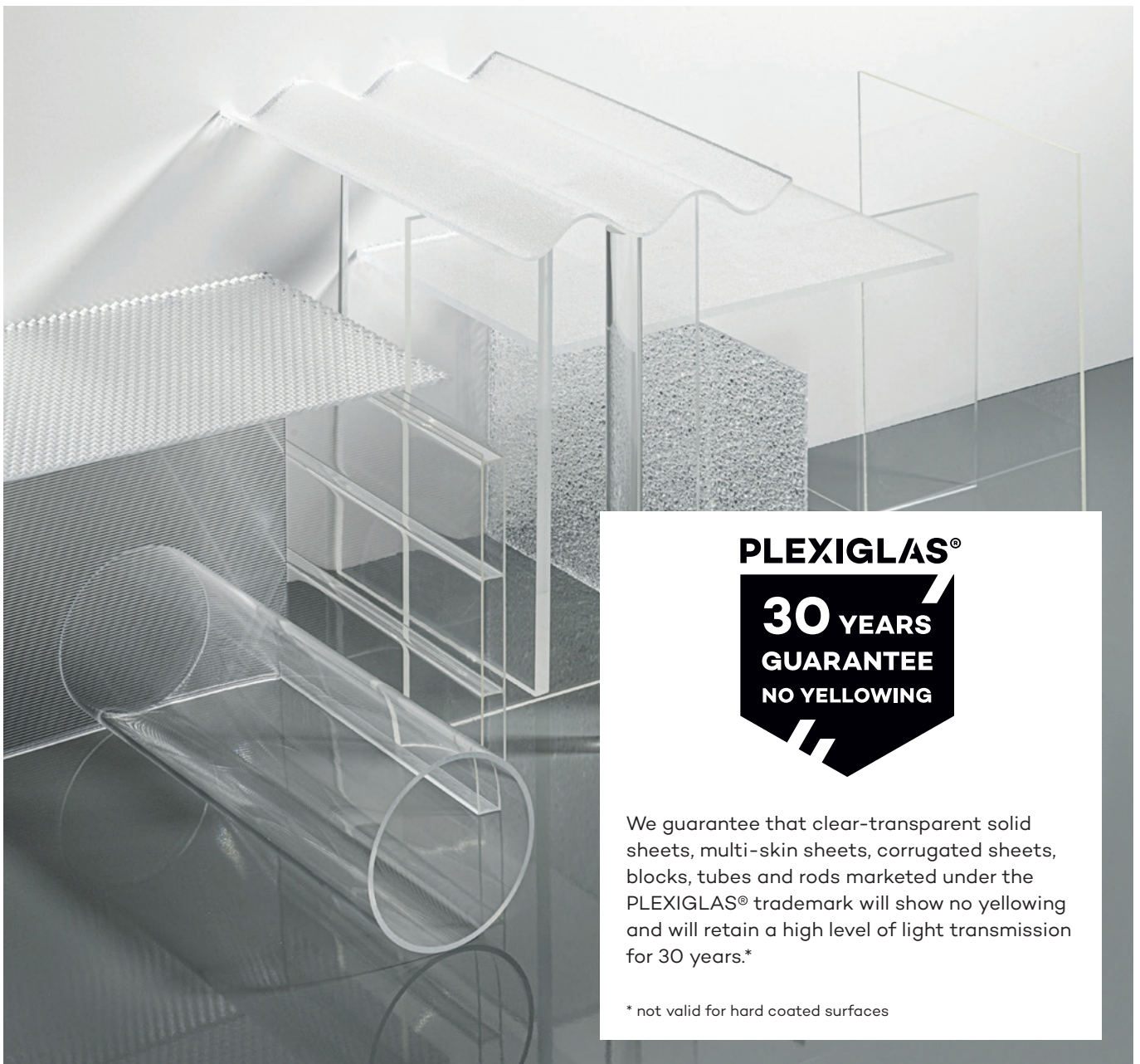


PLEXIGLAS®

THE ORIGINAL BY RÖHM

30 YEARS GUARANTEE STATEMENT

PLEXIGLAS®
will not yellow!



PLEXIGLAS®

**30 YEARS
GUARANTEE
NO YELLOWING**

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.*

* not valid for hard coated surfaces

RÖHM

PLEXIGLAS® – 30 Year Guarantee

No Yellowing

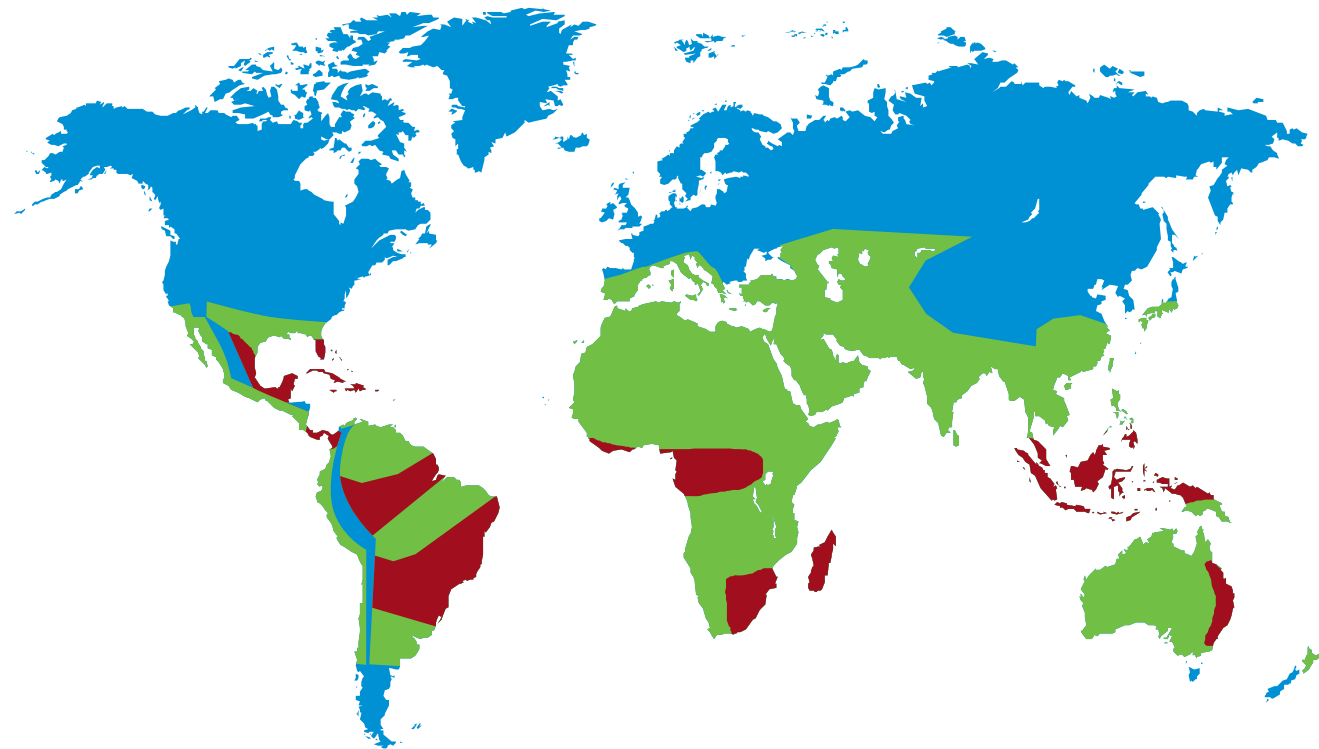
Many plastics yellow visibly in the course of time. PLEXIGLAS® does not. Even after 30 years, the absolute yellowness indices are among the lowest possible for plastics at the present time. PLEXIGLAS® complies with the guaranteed values listed in the table throughout the world.



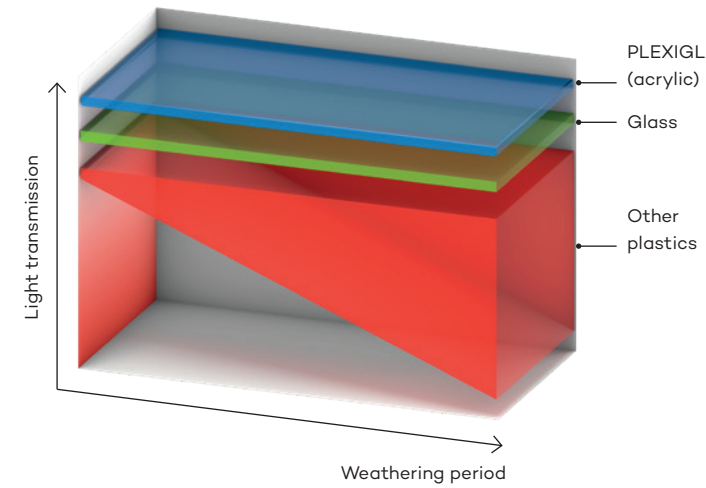
We guarantee that PLEXIGLAS® sheets will show no visible yellowing for 30 years.

We give you our guarantee that sunlight will not visibly change the appearance, brilliance and surface of clear-transparent PLEXIGLAS® in the course of 30 years.*

* not valid for hard coated surfaces



Absolute YI Date of Sale	30 Years Later	Climatic Zone
0-1	-5	■ temperate
0-1	-6	■ hot, dry
0-1	-8	■ hot, humid



More Light

Many plastics lose a considerable portion of their light transmission during use. Sheets may become darker.

PLEXIGLAS® does not. Depending on material grade and region, clear-transparent sheets still retain up to 90 % light transmission after 30 years of service life. This is one of the best transmission levels offered by any plastic.*



We guarantee that PLEXIGLAS® sheets in Clear grade will retain a high level of light transmission for 30 years.

* not valid for hard coated surfaces



PLEXIGLAS® (acrylic)

Many other plastics

Hardly Any Smoke

Upon combustion, many plastics produce thick smoke and/or toxic gases that may be very dangerous to human health. PLEXIGLAS® does not. PLEXIGLAS® in Clear grade and in standard colors burns almost without smoke and forms no toxic or corrosive gases.

In the event of fire, PLEXIGLAS® may therefore help to protect people and property.

We guarantee that PLEXIGLAS® will retain its fire behavior even after 30 years of weathering.

Environmental Consciousness

Nachhaltigkeit (Sustainable Development) ist ein integraler Bestandteil unserer Geschäftsprozesse – so werden bei Unternehmensentscheidungen Interessen heutiger und zukünftiger Generationen sowie ökonomische, ökologische und soziale Belange gleichermaßen berücksichtigt. Auf Basis dieser Verantwortung entwickeln und produzieren wir auch PLEXIGLAS® in umweltschonenden Prozessen. Wir achten darauf, dass unsere hochwertigen Produkte umweltverträglich und langlebig sind.

Sustainability and responsibility for our products and their use are among our basic principles.

PLEXIGLAS® is free from

- heavy metals such as cadmium and mercury
- asbestos, formaldehyde, CFCs, PCB, PCT

PLEXIGLAS®

- complies with the relevant regulations for use in toys and packaging
- is manufactured by environmentally sound processes at certified facilities (quality standard DIN EN ISO 9001, environmental certificate DIN EN ISO 14001)

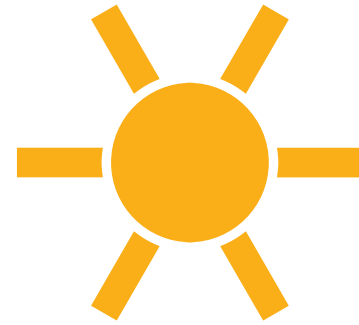
For information on further guarantees related to hail resistance, rigidity, strength etc., go to www.plexiglas.de

Be on the Safe Side with PLEXIGLAS®

Beware of UV Radiation!

Humans need light and warmth. The sun gives us both, but sunlight also contains harmful ultraviolet (UV) rays, more and more of which are now reaching Earth's surface due to the hole in the ozone layer.

Everyone who has ever suffered from sunburn knows the harmful effects of UV light.



Beware of Confusion – Insist on PLEXIGLAS®!

There are many transparent plastics for exterior applications. It's often hard to tell the difference between them when you buy (Fig. 1).

Dangerous UV radiation can cause dramatic changes in most plastics. They may turn yellow or brown, and become unsightly (Fig. 2).

Products that contain natural UV protection throughout the material are best equipped.



Fig. 1: PLEXIGLAS® compared to other plastics in unused condition.

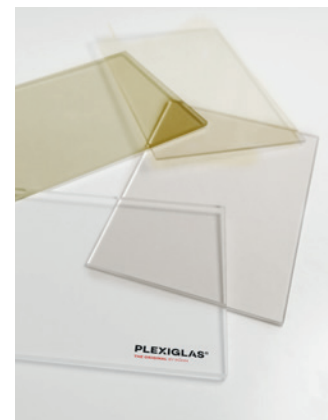


Fig. 2: PLEXIGLAS® compared to other plastics after prolonged UV radiation.

Be on the Safe Side with PLEXIGLAS® 30-Year Guarantee!

PLEXIGLAS® has such natural UV protection. That is what makes PLEXIGLAS® one of the best plastics of all for exterior applications, whether in the automotive or aviation industry, in carports or patio roofs – one that has been around for over 85 years.

PLEXIGLAS® defies the yellowing effect of UV radiation thanks to its NATURALLY UV-STABLE technology. Because we are so sure of that fact, we offer a new 30-year guarantee against yellowing and light loss for all purchases from April 1, 2007.*

* not valid for hard coated surfaces

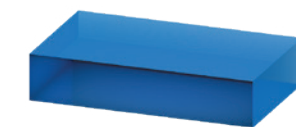


Aircraft cabin windows made of PLEXIGLAS® protect passengers from strong UV light, substantial differences in pressure and extreme cold.

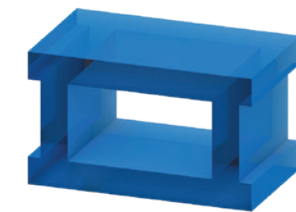
Better Technology for Your Roof

Ideal Protection Through NATURALLY UV-STABLE Technology

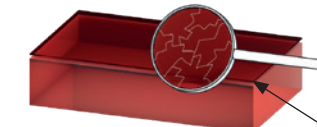
PLEXIGLAS® consists of extremely strong, UV-stable molecules through and through. The special NATURALLY UV-STABLE technology stabilizes PLEXIGLAS® completely from within. That means the entire sheet is UV-stable, not just a thin surface layer.



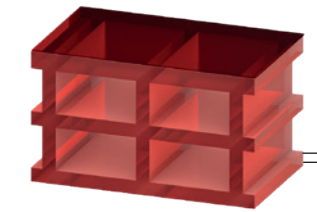
PLEXIGLAS® sheet
The NATURALLY UVSTABLE technology stabilizes 100 % of the material against UV radiation



PLEXIGLAS® multi-skin sheet
Thick material

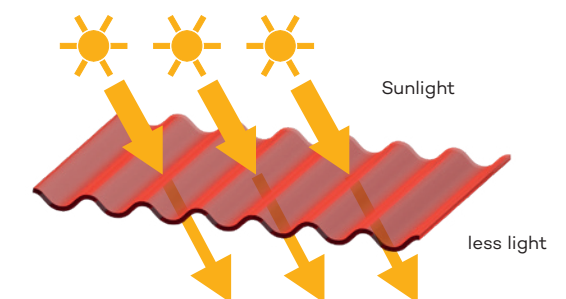
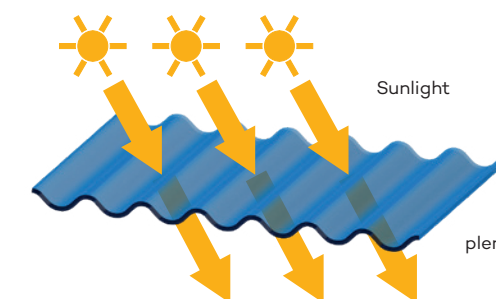


Sheet with UV-protective layer
Almost the entire material thickness is UV-sensitive
Thin protective layer



Multi-skin sheet made of other plastics
Thin material

Thicker material (not just thicker walls in multi-skin sheets) often makes for more stable roofs and reduces rain noise.



By nature, PLEXIGLAS® shows one of the highest levels of light transmission offered by any plastic.

Quality Comes at a Price ...

PLEXIGLAS® multi-skin and corrugated sheets are often a bit more expensive than other plastics that appear comparable at first sight. And for very good reason.

Compare for yourself!	PLEXIGLAS®	Other plastics
"No yellowing" guarantee	30 years*	usually 10 years
Natural UV protection	yes	no
UV-stable through and through	yes	no
Light transmission	very high	lower
Stability/rigidity	very high	lower
Rain noise	muted	louder
Material thickness	thick	thin
Guarantee	value on delivery	usually, present market value

* not valid for hard coated surfaces

Tests Passed with Flying Colors

State Materials Testing Institute (MPA), Darmstadt

“On delivery, PLEXIGLAS® is clear-transparent and retains this property during weathering tests.”

German Institute for Building with Plastics (IBK)

“PMMA shows the highest light transmission and is an excellent light conductor, better than inorganic glass.”

Darmstadt Technical University (TU)

“PLEXIGLAS® behaves similarly to stainless steel. It is a plastic that grows older without aging. Its unsurpassed durability and weather resistance make PLEXIGLAS® such a valuable construction material.”

Institute for solar thermal technology, SPF

“The various PMMA specimens show amazingly good behavior. Clean specimens show virtually no reduction in solar transmittance.”

PLEXIGLAS® – 30 Year Guarantee



IMPORTANT: This Guarantee Statement is a legally non-binding convenience translation of the original German language „Garantieerklärung“ available under www.plexiglas.de. Any rights or claims alleged to be available under or in relation to this Guarantee Statement shall exclusively be governed by the German language „Garantieerklärung“.

PLEXIGLAS® does not yellow visibly*

Colourless, transparent PLEXIGLAS® has a yellowing value of 0–1 when new. Depending on product type and design, the yellowing value is only 4–7 delta higher after 30 years. The yellowing value is measured as per DIN 5036 on cleaned and polished specimen conditioned in a standardized climate at 23 °C/50 % rel. hum. until equilibrium is reached.

PLEXIGLAS® retains high level of transparency

Colourless PLEXIGLAS® has a light transmission when new of up to 92 % depending on product type and design. Depending on product type and design, light transmission is only 2–15 % lower after 30 years. The transmission factor $t_{0.65}$ is measured as per DIN 5036 on cleaned and polished specimen conditioned in a standardized climate at 23 °C/50 % rel. hum. until equilibrium is reached.

PLEXIGLAS® retains its combustion behaviour

Colourless PLEXIGLAS® burns nearly smoke-free and produces no acutely toxic flue gases. All product types and designs do not change their combustion behaviour within a 30-year period. Light absorption by smoke is measured acc. to DIN 4101-1 Annex B. PLEXIGLAS® burns nearly smoke-free, i.e. light absorption by the smoke is < 15 %. The acute toxicity of flue gases is measured as per DIN 53436. PLEXIGLAS® is considered harmless in this respect.

Terms & Conditions, Exclusions

All guarantee values shall be determined using cleaned specimen. In case of complex profiles, the measured values shall be determined on flat and plane-parallel specimen, since otherwise the material values cannot be determined with sufficient accuracy. Textured semi-finished goods – only on the more roughly textured side if both sides are textured – must be measured with the textured side facing the light source, at the original thicknesses. The products must have been stored, transported, processed, installed and used in accordance with the requirements of the subject materials. They must not have been thermally moulded or exposed to detrimental effects of harmful chemicals. For information on proper use, care and deployment of our products go to www.plexiglas.de.

* ausgenommen sind HC veredelte Oberflächen

Duration of Guarantee

This Guarantee begins with the day of delivery to the enduser and expires upon deinstallation of the first application, intentional or wilful destruction, or 30 years after the date of purchase, whatever occurs earlier. Any Guarantee claims shall exclusively be determined and governed by the version of this Guarantee Statement valid on the date of purchase of the material in question. The applicable version(s) in each case are found at www.plexiglas.de

In case of a guarantee claim

Any rights or claims raised hereunder shall be subject to the following,

- The user must present us a bill from the seller showing the name and address of the user, date of purchase, full product type/name and the product quantity so purchased.
- The guarantee claim must be submitted to us, during the term of this Guarantee, in writing within 30 days.
- We ourselves must without delay be permitted to inspect the defect and its potential causes on site, or to have another party do so on our behalf.

Claims exclusively available hereunder

In case all terms and other conditions hereof are fulfilled such that the user has a valid claim hereunder we will replace the defective PLEXIGLAS® product ex works. If equivalent replacement material is no longer manufactured by us or can no longer be supplied, the user will receive a refund of the original purchase price. No other or further rights or claims of any kind shall be available hereunder.

Consumer Rights, applicable Law & Jurisdiction

This Guarantee does not affect or restrict any rights or claims specifically available to consumers under applicable law. This Guarantee shall exclusively be governed by and construed under the laws of Germany, as applicable on the date of purchase of the goods in question, without giving effect to conflict of laws principles. The exclusive place of jurisdiction for any rights or claims from this Guarantee shall be Darmstadt, Germany.



United Nations Sustainable Development Goals: How PLEXIGLAS® supports sustainable action

The United Nations' 2030 Agenda for Sustainable Development aims to shape global economic progress in a socially just manner and within the Earth's environmental limits. At the heart of this agenda are 17 Sustainable Development Goals (SDG). These goals are to be achieved by 2030 through the joint efforts of states, companies and civil society. We at Röhms GmbH are also contributing toward this necessary change – through both our PLEXIGLAS® products and our company's sustainability strategy.



Find out which SDGs are particularly relevant for us and how PLEXIGLAS® supports sustainable action at www.plexiglas.de/eco.



Röhms GmbH Acrylic Products

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www.plexiglas.de
www.roehm.com

® = registered trademark

PLEXIGLAS is a registered trademark of Röhms GmbH, Darmstadt, Germany.

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

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