

degussa.

creating essentials

30 Year
Guarantee
PLEXIGLAS®
NO YELLOWING!

PLEXIGLAS® will not yellow!



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.



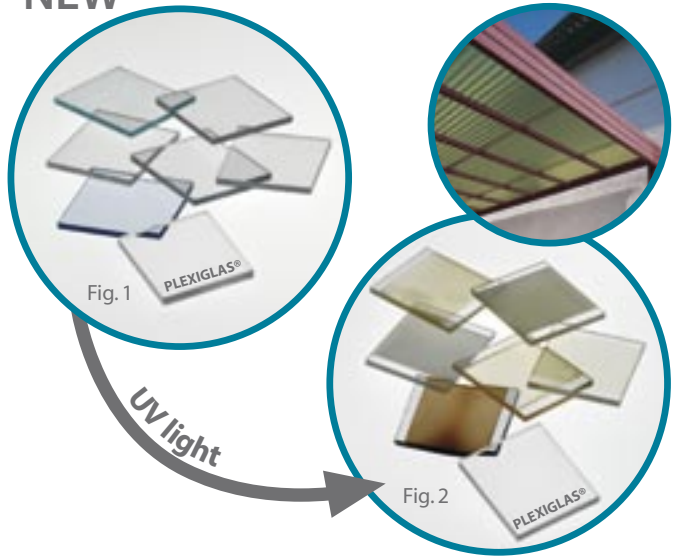
Beware of Confusion – Insist on PLEXIGLAS®!

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.

NEW



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 70 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*.



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



Since automotive taillights must retain their color even after many years of service, many car manufacturers rely on PLEXIGLAS®.

* Subject to the conditions of our Guarantee Statement, which you can request from your PLEXIGLAS® supplier or directly from us. You can also read it or print it out from the Internet at www.plexiglas.net.

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

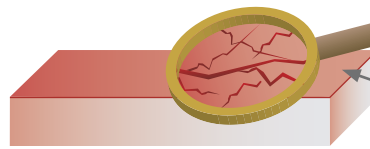


The NATURALLY UV-STABLE technology stabilizes 100% of the material against UV radiation (■).

How Effective Are UV-Protective Layers?

UV-sensitive plastics are often provided with protective layers to shield them from UV radiation. Coatings such as lacquers and other types of film are often very thin and liable to scratch, flake or crack.

Sheet with UV-protective layer



Almost the entire material thickness is UV-sensitive (■).

Thin protective layer

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

PLEXIGLAS® multi-skin sheet



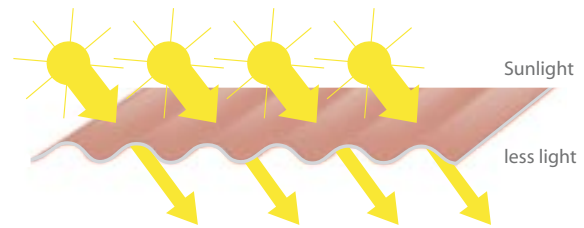
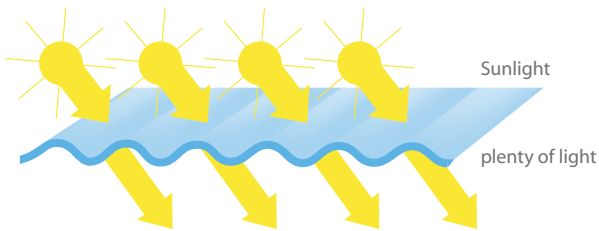
Thick material

Multi-skin sheet made of other plastics



Thin material

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



Quality Comes at a Price ...

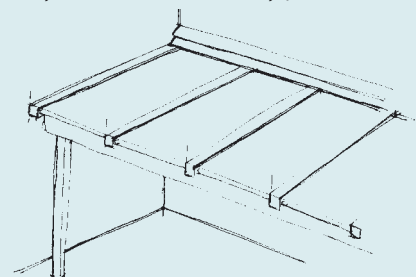
PLEXIGLAS® multi-skin and corrugated sheets are often a bit more expensive than other plastics that appear comparable at first sight. And for very good reason:

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

Sample Calculation for Typical Roofing

A roof built with PLEXIGLAS® offers many superior properties, at only slightly higher overall cost.

Roof with	PLEXIGLAS® multi-skin sheets	Other plastics
wood:	1,250 euros	1,250 euros
profiles:	700 euros	700 euros
multi-skin sheet:	900 euros	700 euros
eaves gutter:	130 euros	130 euros
	2,980 euros	2,780 euros



Tests Passed with Flying Colors



German Institute for Building with Plastics (IBK)

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



State Materials Testing Institute (MPA), Darmstadt

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



Institute for solar thermal technology, SPF

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



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.



Trademark of the Century

In 2006, PLEXIGLAS® was admitted to the illustrious group of trademarks of the century. This distinction takes into account the familiarity, quality and availability of the selected products.



For more information go to www.plexiglas-info.com



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® = registered trademark

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