

PLEXIGLAS® BASIC

Corrugated and Trapezoidal Sheets



What's more, users of transparent, clear grades of PLEXIGLAS® benefit from the 30-year guarantee – No yellowing with PLEXIGLAS®!

Subject to the conditions in our guarantee statement, which you can obtain from your PLEXIGLAS® supplier, request from us or read and print out from the Internet at www.plexiglas.net.

PLEXIGLAS® BASIC WP 76-18

PLEXIGLAS® BASIC TP 76-18

Technical Data (Typical Values)

Delivery lengths	2000 mm to 7000 mm
Light transmission τ_{D65} Clear Smooth 0R005	92%
Light transmission τ_{D65} Clear C-Texture 0R005	90%
Light transmission τ_{D65} Brown Smooth 8R002	70%
Light transmission τ_{D65} Brown C-Texture 8R002	65%
Coefficient of linear thermal expansion α	0,09 mm/mK
Expansion due to heat and moisture	~ 6 mm/m
Maximum permanent service temperature (unloaded)	70 °C

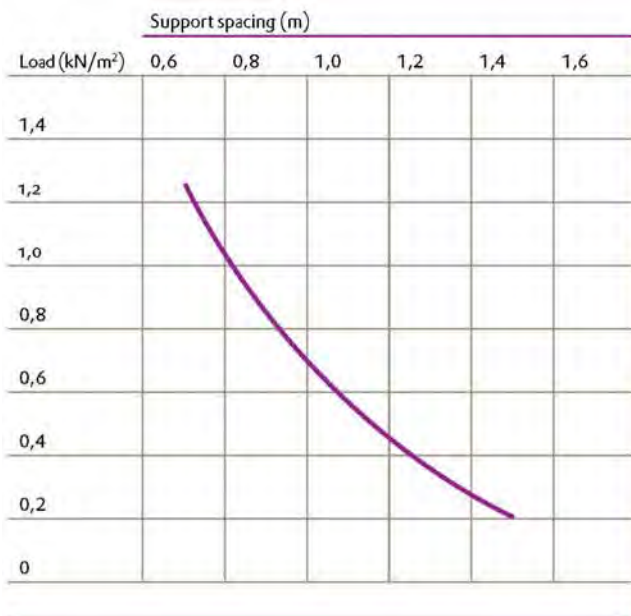
Fire Rating

Smoke gas formation, DIN 4102	virtually no smoke formation
Smoke gas toxicity, DIN 53436	not acutely toxic, inoffensive
Smoke gas corrosiveness, VDE 0482-267	non-corrosive
Material category, DIN 4102	normally flammable, B2
Fire rating, DIN EN 13501	Class E
Evacuation of smoke and heat via the roof	material opens up by melting, helps smoke evacuation

Loadbearing Capacity/Installation in Line with ETAG 010*

Installed flat	
Support spacing	see diagram load/ support spacing
No. of screw fastenings per purlin	one on the crest of every third corrugation
Cold-curved	
Minimum bending radius	2880 mm

Diagram load/support spacing, installation of flat sheets



PLEXIGLAS® BASIC WP 76-18



PLEXIGLAS® BASIC TP 76-18

— PLEXIGLAS® BASIC WP 76/18 and PLEXIGLAS® BASIC TP 76/18

* ETAG 010 : European Technical Approval Guidelines for Self-Supporting Translucent Roof Kits

PLEXIGLAS® BASIC as compared with other materials

	PLEXIGLAS RESIST® Corrugated Sheet, Clear Sheet thickness 3 mm	PLEXIGLAS® BASIC Corrugated Sheet, Clear Sheet thickness 1,5 mm	As compared with: conventional clear corrugated sheet made from polyvinyl chloride (PVC) Sheet thickness 1,2 mm	As compared with: conventional clear corrugated sheet made from polycarbonate (PC) Sheet thickness 0,8 mm
Optical properties Nice and stable The sheet thickness is decisive if a roof is to look harmonious and solidly built, especially from the front. Thick sheets are better suited to a sturdy supporting structure. Not only do they look good, they last longer too. Feel for yourself!				
PLEXIGLAS® retains its beauty for many years The yellowing of corrugated sheets is objectively measured by the yellowness index. Higher yellowness values may mean rougher surfaces and greater soiling. PLEXIGLAS® corrugated sheets are made of acrylic and remain durably smooth and brilliant.	 Yellowness index after 10 years: no more than 1	 Yellowness index after 10 years: no more than 1	 Yellowness index after 10 years: more than 20	 Yellowness index after 10 years: ca. 2-4
Weather Resistance Inherent UV Resistance As an acrylic material, PLEXIGLAS® naturally shows very good weather resistance and requires no UV-protective coating.	 Absolutely UV-resistant	 Absolutely UV-resistant	 Requires the addition of UV absorbers	 Requires additional UV-protective coating
Loadbearing Capacity The more stable the better At the same load, PLEXIGLAS® corrugated sheets show less deflection than comparable corrugated sheets made from PC or PVC (experimental setup according to ETAG 010*, sheet width approx. 1 m, support spacing 1 m, load 75 kg/m²).	 75 kg/m² Deflection: 10mm	 75 kg/m² Deflection: 17mm	 75 kg/m² Deflection: 20mm	 75 kg/m² Deflection: 40mm
Feel-Good Factor Can you hear the rain? PLEXIGLAS® corrugated sheets are made from acrylic and therefore absorb sound better than comparable corrugated sheets made from PVC or PC.	 Sound test	 Sound test	 Sound test	 Sound test

* ETAG 010: European Technical Approval Guidelines for Self-Supporting Translucent Roof Kits

PLEXIGLAS HEATSTOP®

Tough yet lightweight! Certified hail resistance • ease of installation • lasting brilliance • heat protection



PLEXIGLAS RESIST®

Tough yet lightweight! Certified hail resistance • ease of installation • lasting brilliance



The all-rounders at a moderate price

Unbeatable benefits

PLEXIGLAS® BASIC corrugated and trapezoidal sheets are

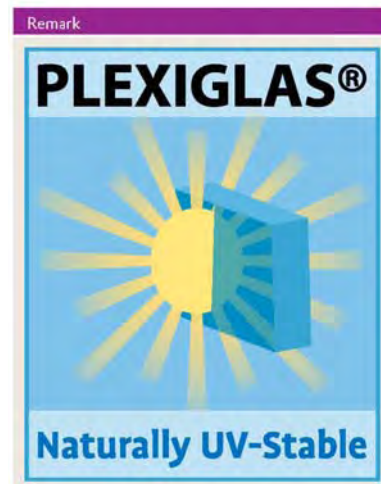
- hail-resistant and
- impact-resistant,
- show high light transmission,
- offer outstanding weather resistance,
- excellent UV protection,
- superior resistance to alkalis and
- have generous safety reserves.

The complete range of PLEXIGLAS® corrugated sheets

- PLEXIGLAS RESIST® Clear Smooth
- PLEXIGLAS RESIST® Clear W
- PLEXIGLAS RESIST® Clear C
- PLEXIGLAS HEATSTOP® Opal
- PLEXIGLAS HEATSTOP® Grey Smooth
- PLEXIGLAS HEATSTOP® Grey W
- PLEXIGLAS HEATSTOP® Grey C

The all-rounders at a moderate price

PLEXIGLAS® BASIC is available with immediate effect. New, slim, sophisticated and technically revised. And at a very seductive price.



Canopies &
Industrial skylights



Patio roofs



Carports

 **Plastral**

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