

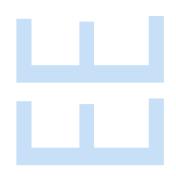
creating essentials

We guarantee

PLEXIGLAS RESIST[®] SP, PLEXIGLAS HEATSTOP[®] SP

Multi-Skin Sheets and

PLEXIGLAS RESIST® WP



Corrugated Sheets for 10 years on light transmission, hail resistance, rigidity and strength.

Product Definition

PLEXIGLAS RESIST® SP and PLEXIGLAS HEATSTOP® SP multi-skin sheets and PLEXIGLAS RESIST® WP corrugated sheets are extruded from impact-modified acrylic (polymethyl methacrylate, PMMA).

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The guarantee covers PLEXIGLAS RESIST® SDP 8 and in grades	SDP 16 double-skin sheets Clear 00721 NO DROP, Clear 00721 C,	
PLEXIGLAS RESIST [®] S4P 32 quadruple-skin sheets in grades	Clear 00721 NO DROP, Clear 00721 C, White WA012,	
PLEXIGLAS HEATSTOP® SDP 8 and SDP 16 double-ski	n sheets	
in the grade	Opal WR004	
and PLEXIGLAS RESIST, WP corrugated sheets of prof	iles WP 76/18 WP 130/30 and W	/P 177/51
in grades	Clear 0A001 Smooth, Clear 0A001 W, Clear 0A001 C, Brown 8A001 W, Brown 8A003 C.	
Guarantee Statements 1. PLEXIGLAS® SP and WP retain their light transmis This means that the sheets are guaranteed to show the		les τ_{D65} on delivery / after 10 years:
PLEXIGLAS RESIST®	SDP 8	and SDP 16 in
Clear 00721 NO DROP and Clear 00721 C:	≥ 83 % / ≥ 79 %	≥ 83 % / ≥ 79 %,
PLEXIGLAS RESIST®	S4P 32 in	
Clear 00721 NO DROP and Clear 00721 C:	≥ 72 % / ≥ 68 %,	
White WA012:	$\geq 60 \% / \geq 56 \%$,	
PLEXIGLAS HEATSTOP®	SDP 8	and SDP 16 in
	> 60 % / ≥ 56 %	$\geq 50 \% / \geq 46 \%$
Opal WR004:	≥00 %7≥30 %	≥ 50 % 7 ≥ 48 %
PLEXIGLAS RESIST®	WP in	
Clear 0A001 Smooth:	≥ 88 % / ≥ 84 %,	
Clear 0A001 W:	≥ 79 % / ≥ 75 %,	
Clear 0A001 C:	≥ 86 % / ≥ 82 %,	
Brown 8A001 W:	≥ 53 % / ≥ 49 %,	
Brown 8A003 C:	≥ 73 % / ≥ 69 %.	
The transmittance τ_{D65} is measured according to DIN 5063 on clean, po	blished specimens which have been cond	itioned to the equilibrium state in the standard

The transmittance τ_{Des} is measured according to DIN 5063 on clean, polished specimens which have been conditioned to the equilibrium state in the standard climate of 23 °C / 50 % RH.



2. PLEXIGLAS RESIST[®] SP and WP will not be broken by hail within the guarantee period.

Breakage by hail within the meaning of this guarantee is defined as at least 5 holes at different points in the surfaces of multi-skin or corrugated sheets produced by 10 shots during the hail simulation test described below.

Hail simulation test:

Pellets of polyamide PA 6.6 with a diameter of 20 mm (weight approx. 4.5 g) are propelled against the weathered surface at a speed of 21 m/s, corresponding to a kinetic energy of 1 joule, at room temperature.

Information:

According to an expertise, a natural hailstone of 23 mm in diameter has an average impact velocity of 17 m/s and a kinetic energy of 1 joule. Furthermore, a hailstone study has established that the average frequency of hailstones of more than 10 mm in diameter, e.g. in the Stuttgart area, is only 2.9 %. Hailstones of a greater diameter are even less frequent.

3. PLEXIGLAS RESIST[®] SP and WP retain their rigidity.

This means that the multi-skin sheets are guaranteed to show the following modulus of elasticity E_{t} on delivery: ≥ 1800 MPa, after 10 years: ≥ 1800 MPa,

and the corrugated sheets:

on delivery: \geq 2000 MPa, after 10 years: \geq 2000 MPa.

The modulus of elasticity Et is determined in the tensile test according to ISO 527-2/1B/1 at 23 °C as the average value measured on five specimens with parallel faces, which have been conditioned to the equilibrium state in the standard climate of 23 $^\circ$ C / 50 $^\circ$ RH.

4. PLEXIGLAS RESIST[®] SP and WP retain their strength.

This means that the multi-skin sheets are guaranteed to show the following values of tensile strength σ_M \geq 40 MPa, after 10 years: \geq 35 MPa,

on delivery:

and corrugated sheets: on delivery:

 \geq 45 MPa, after 10 years: \geq 40 MPa.

The tensile strength $\sigma_{\rm M}$ is determined in the tensile test according to ISO 527-2/1B/50 at 23 °C as the average value measured on 5 specimens with parallel faces, which have been conditioned to the equilibrium state in the standard climate of 23 °C / 50 % RH.

Note

All guaranteed values are established for flat specimens with parallel faces cut out of the sheets, because for reasons of testing technique the characteristic material values cannot or not accurately be measured an complex profiles.

Conditions of Guarantee

The sheets

- have to be stored, transported, fabricated and installed (or used) in a manner that suits the material;
- must not be thermoformed;
- must not be (adversely) affected by connecting, fastening and sealing elements;
- and must be protected against adverse chemical influences.

This guarantee applies throughout Europe. For guarantee questions concerning applications outside Europe, please get in touch with us.

Applicability

A complaint under this guarantee will be considered:

- (a) if caused within the guarantee period despite demonstrable observance of the conditions of guarantee,
- (b) if made in writing without delay during the guarantee period, and name and address of the buyer, the purchase date, complete product description and number of sheets purchased.

If the complaint is justified, we will replace the material free of charge ex factory.

If suitable replacement material is no longer available, the customer will be refunded with the original purchase price.

Further claims are excluded.

Guarantee Period

This guarantee commences with the date of delivery to the user and ends ten years later.

Degussa **Business Unit Plexiglas**

Röhm GmbH & Co. KG Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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