

We guarantee

# PLEXIGLAS®

for 10 years on light transmission, rigidity and strength.

The guarantee applies to the following products:

PLEXIGLAS® GS solid sheets	Clear 233	
PLEXIGLAS® XT solid sheets	Clear 20070 Clear 24370	
PLEXIGLAS® XT textured sheets	Clear 20070 (all textures)	Brown 43470 (all textures)
PLEXIGLAS® GS tubes	Clear 232	
PLEXIGLAS® XT tubes	Clear 29070	
PLEXIGLAS ALLTOP® SDP double-skin sheets	Clear 29070	

## Guarantee statements

### 1. PLEXIGLAS® retains its light transmission and does not turn yellow.

Which means: The sheets and tubes are guaranteed to show the following minimum light transmission values after a period of 10 years.

Material	Transmittance $\tau_{D65}$ in %			
	Typical values of the solid sheets, textured sheets, multi-skin sheets and tubes on delivery		Guaranteed values (specimens 1 mm thick) <sup>1)</sup>	
		after 10 years	on delivery	after 10 years
PLEXIGLAS® GS Clear 232	c. 92	c. 91	min. 90	min. 88
PLEXIGLAS® GS Clear 233	c. 92	c. 91	min. 90	min. 88
PLEXIGLAS® XT Clear 20070	c. 92	c. 91	min. 90	min. 88
PLEXIGLAS® XT Clear 24370	c. 92	c. 91	min. 90	min. 88
PLEXIGLAS® XT Clear 29070	c. 92	c. 91	min. 90	min. 88
PLEXIGLAS® XT textured sheets				
Clear 20070, all textures	c. 89 <sup>2)</sup>	c. 88 <sup>2)</sup>	min. 87 <sup>3)</sup>	min. 85 <sup>3)</sup>
Brown 43470, all textures	c. 63 <sup>2)</sup>	c. 62 <sup>2)</sup>	min. 62 <sup>3)</sup>	min. 61 <sup>3)</sup>
PLEXIGLAS ALLTOP® SDP 16				
Clear 29070	c. 91	c. 89	min. 89	min. 87

<sup>1)</sup> The transmittance  $\tau_{D65}$  is measured on clean, 1 mm thick specimens according to DIN 5036. The specimen surfaces, which are the result of mechanical treatment, must be polished (cf. Note).

<sup>2)</sup> Measurement performed with the textured side (side with coarser texture in sheets textured on both sides) facing the light source.

<sup>3)</sup> To be measured on original thickness.

## 2. PLEXIGLAS® retains its rigidity.

Which means: The sheets and tubes are guaranteed to show the following values of the elastic modulus  $E_t$

on delivery: min. 2,900 MPa,  
after 10 years: min. 2,800 MPa.

The elastic modulus  $E_t$  is measured in the tensile test according to ISO 527-2/1B/1, at 23 °C, using 1 to 4 mm thick specimens with parallel faces which have been conditioned to the equilibrium state in the standard climate of 23 °C and 50 % RH (cf. Note).

## 3. PLEXIGLAS® does not become brittle and retains its strength.

Which means: The sheets and tubes are guaranteed to show the following values of tensile strength  $\sigma_M$

on delivery: min. 65 MPa,  
after 10 years: min. 60 MPa.

The tensile strength  $\sigma_M$  is measured in the tensile test according to ISO 527-2/1B/5, at 23 °C, using 1 to 4 mm thick specimens with parallel faces (in the case of PLEXIGLAS ALLTOP® SDP cut in the direction of the webs) which have been conditioned to the equilibrium state in the standard climate of 23 °C and 50 % RH (cf. Note).

### Note

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

### Conditions of guarantee

The sheets and tubes

- must be stored, transported, machined, handled and installed (or used) in a manner which suits their nature,
- must not be thermoformed,
- must not be (adversely) affected by connecting, fastening and sealing elements and
- must be protected from adverse chemical influences.

This guarantee is valid for all European countries.

For guarantee questions outside Europe, please contact 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 without delay, in writing, within this period and
- (c) if an invoice of the seller is submitted showing the name and address of the purchaser, the date of purchase and the complete product designation and quantity.

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

If no suitable material can be delivered in replacement, pay a sum of money equivalent to the original purchase price. Further claims are excluded.

### Guarantee period

The guarantee commences with the date of delivery and ends 10 years later.

® = registered trademark

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**PLEXIGLAS ALLTOP**  
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Röhm GmbH & Co. KG,  
Darmstadt, Germany.



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

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