

We guarantee

PLEXIGLAS HEATSTOP® XT 4029

solid sheets

for 10 years

on light transmission, energy transmission, rigidity and strength

Product Definition

PLEXIGLAS HEATSTOP® XT 4029 are solid sheets made from acrylic (polymethyl methacrylate, PMMA) with an infrared-reflecting layer on one side. They are translucent and highly light-diffusing. Owing to their selective reflection, they have a reddish-purple shimmer in incident light which becomes greenish in transmitted light.

Guarantee Statements

1. PLEXIGLAS HEATSTOP® XT 4029 retains its light transmission.

This means that after 10 years, the sheets will have a transmittance $\tau_{DES'}$ which is no more than 5 per cent lower than at the time of delivery.

The transmittance $\tau_{DES'}$ is measured on clean, unscratched specimens according to DIN 5036.

2. PLEXIGLAS HEATSTOP® XT 4029 retains its energy transmission.

This means that after 10 years, the sheets will have an energy transmittance g which is no more than 2 per cent higher than at the time of delivery.

The energy transmittance g is measured on clean, unscratched specimens according to DIN 67507 / EN 410.

3. PLEXIGLAS HEATSTOP® XT 4029 retains its rigidity.

This means that the sheets will have a modulus of elasticity of $E_t \geq 2800$ MPa after 10 years.

The modulus of elasticity E_t is measured in the tensile test according to ISO 527-2/1B/1 at 23 °C, as the average value established for 5 specimens with parallel faces which have been conditioned to the equilibrium state in the standard climate of 23 °C / 50 % RH.

4. PLEXIGLAS HEATSTOP® XT 4029 does not become brittle and retains its strength.

This means that the sheets will show a tensile strength of $s_M \geq 60$ MPa after 10 years.

The tensile strength s_M is measured in the tensile test according to ISO 527-2/1B/5 at 23 °C, as the average value established for 5 specimens with parallel faces, which have been conditioned to the equilibrium state in the standard climate of 23 °C / 50 % RH.

Conditions of guarantee

The sheets

- have to be stored, transported, fabricated and installed (or used) in a manner that suits to 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 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 during the guarantee period and
- (c) if an invoice issued by the salesperson is presented, showing the 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 works.

If suitable replacement material cannot be supplied, 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.

® = registered trademark

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PLEXIGLAS HEATSTOP
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Röhm GmbH & Co. KG,
Darmstadt

The logo for Röhm GmbH & Co. KG, featuring the word "röhm" in a stylized, lowercase, blue font. The letter 'o' is unique, with a vertical bar extending upwards from its center, resembling a test tube or a similar scientific instrument.

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