

TEN-YEAR GUARANTEE ON ALTUGLAS® EI25 - EI50

Altuglas International guarantees that the Altuglas® EI25 and EI50 colourless sheets retain virtually all their characteristics after 10 years exposure to weather. This guarantee covers the optical properties, rigidity and impact resistance.

OPTICAL PROPERTIES

Measurements of the yellowing and light transmission are carried out on 3 and 4mm sample pieces, after their surfaces have been cleaned and re-polished if necessary. The yellowing and light transmission indexes are measured according to standards ASTM 1925 and ASTM 1003 respectively. The initial values and those obtained after 10 years of external exposure are as follows:

	EI25	EI50
Yellowing Index		
Initial value (maximum)	1	1
Value after 10 years (maximum)	5	6
Light transmission (%)		
Initial value (minimum)	90	90
Value after 10 years (minimum)	80	80

RETENTION OF RIGIDITY

The modulus of elasticity is measured in accordance with the **ISO 178** standard on 1 to 4 mm parallel-faced samples that have been conditioned at 23°C and at 50% relative humidity.

The initial values and those obtained after 10 years of external exposure are as follows:

	EI25	EI50
Modulus of elasticity in flexion (MPa)		
Initial values (maximum)	2500	2000
Values after 10 years (maximum)	2500	2000

IMPACT RESISTANCE

Impact resistance is measured according to standard ISO 1791fU (un-notched Charpy impact test) on test samples with 3 and 4mm parallel surfaces at 23°C and 50% relative humidity. In order to establish conditions simulating acts of vandalism, the impact measurements were carried out on surfaces exposed to natural ageing. The initial values and those obtained after 10 years of external exposure are as follows:

	EI25	EI50
Un-notched charpy		
Initial value (minimum)	50	68
Value after 10 years (minimum)	40	54

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GUARANTEE CONDITIONS

The **Altuglas® EI sheets** should be stored, handled, transported, machined and installed in accordance with the manufacturer's instructions.

Fastening and sealing sheets together should be carried out in such a manner so as not to have any negative impact on the sheets. The sheets should not be exposed to the harmful effects of chemical agents. Please refer to our Technical Brochure for details of finishing operations and chemical resistance.

GUARANTEE PERIOD

This 10-year guarantee takes effect from the date on which the material is received by the customer.

APPLICATION OF THE GUARANTEE

This guarantee applies if damage occurs within the conditions stated above and if that damage is notified to the stockist within the guarantee period.

This guarantee is limited to the free replacement of the **Altuglas® EI25 or EI50** sheets only.

GENERAL NOTES

For the **Altuglas® EI "smoked" or "transparent colours" products**, the retention of rigidity and impact properties are guaranteed in accordance with paragraphs above. However, light transmission and colour are not covered within this guarantee.

All guaranteed values are measured on machined samples taken from a parallel-faced material.

The values cannot be measured precisely on products whose edges are not straight.

The guarantee is no longer valid if screen printing is applied or aggressive chemicals are used for surface treatment.

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