
metallica
NO MUSIC FULL METAL

# ALTUGLAS

## Extruded Acrylic Glass

### MILLING - THERMOFORMING - BENDING

Altuglas panels are transparent (also available in opaline) and rigid thermoplastic sheets. This material is also excellent for thermoforming, as well as for uses where a precise thickness is required. It can be used for many applications such as the creation of furniture, the forming of special parts in 3 dimensions, the creation of billboards, ... ! It is a basic product suitable for many applications without complex machining or extravagant design.

**INFORMATION FOR**
decorators
advertising technicians
digital printers
design and advertising
and advertising agencies
exhibitors
stand manufacturers
trade fairs and exhibitions
POS decorators
sign makers
model makers
prototypists

- Visual communication
- Windshield
- SOP layout
- Panels
- Displays
- Signs
- Furnishings
- Trade Fair Stands
- Promotion
- Window decorations

# Technical specifications

| Properties | Test method | Unit | Value |
|---|---|---|---|
| Density | DIN 53479 | | 1.19 |
| Tensile strength at 23°. | DIN 53455 | MPa | 74 |
| Modulus of elasticity at 23°. | DIN 53455 | MPa | 3300 |
| Elongation at break at 23° | IDIN 53455 | % | 5 |
| Fracture stress | DIN 53455 | MPa | 120 |
| Impact resistance (Charpy) | DIN 53453 | KJ/m2 | 10 |
| Elasticity limit under pressure | DIN 53454 | MPa | 110 |
| Linear expansion | DIN 52328 | mm/m | 0.065 |
| Thermal conductivity | DIN 52612 | W/m/°C | 0.19 |
| Maximum operating temperature | | C° | 80 |
| Hot forming | | | Excellent |
| Folding | | | Very good |
| Laminating | | | Very good |
| Gluing | | | Very good |
| Resistance to chemical aggression | | | yes |
| Fire class | DIN 4102 (D)<br>NFP 9250 (F) | | B2<br>M4 |
| Very wide range of colors and structures | | | |

**MACHINING**

Can be sawn,
milled, drilled,
cut with a water jet
(for simple machining
and in small numbers).

**FORMING**

Can be bent,
bent, hot or cold formed,
glued.

**PRINTING VARNISHING LAMINATING**

Laminating.

# Tolerances

**EN 7823.1 (+/- 0.4 + (0.1 x s))**

| Plate thickness | Extrusion direction | absolute | Transversally | absolute (mm) |
|---|---|---|---|---|
| 3 mm | 3% | 0.09 mm | 1% | 0.03 mm |
| 4 mm | 3% | 0.12 mm | 1% | 0.04 mm |
| 5 mm | 3% | 0.15 mm | 1% | 0.05 mm |
| 6 mm | 3% | 0.18 mm | 1% | 0.06 mm |
| 8 mm | 3% | 0.24 mm | 1% | 0.08 mm |
| 10 mm | 3% | 0.30 mm | 1% | 0.10 mm |
| 12 mm | 3% | 0.36 mm | 1% | 0.12 mm |