

ALTUGLAS™ NIGHT & DAY

The ALTUGLAS™ Night & Day is a translucent product whereof at least 1 side is satin.

The combination of specially selected additives and a strong and professional light source will give an opportunity to create a state of the art signage. The colour to white effect will give an extra dimension to the visibility of illuminated signs. As a result of market interest a complete 'colour switch' range is developed. The experience and know-how of the black and white is used to extent a single product into the present range containing different base colours.

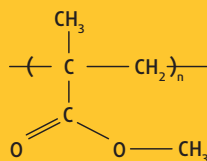
Today different options are available:

- from blue, green, purple or grey to white (most of these are developed on customer requirements in line with international projects)
- from black to blue, green or red

It can be easily thermoformed, bended, cut, drilled and glued. There's no limit to your imagination.

MAIN PROPERTIES

**PMMA
(POLYMETHYLMETHACRYLATE)**



Light

Transparent

UV resistant - No Yellowing

Thermoformable

Easy machining



MAIN APPLICATIONS

- Signage
- Secret signs
- Illuminated furniture parts

PACKAGING

- Our standard film offers a strong adhesion thanks to an additional adhesive layer. On demand a dedicated thermoformable film can be proposed
- Our product is store on wood pallets with a PP sheet at the bottom and a cardboard at the top
- The total weight of the pallet + sheets is less than one ton

STORAGE

The following rules have to be applied:

- Store the product in a dry place, indoors
- Place a polyethylene cover over the stack when a sheet is removed, to reduce moisture absorption.
- Only use original delivery pallets
- Stack pallets of the same size and design to prevent waving
- Place pallets on even surfaces (floor or shelf)
- The durability of the protective film is limited (sensitive to UV, temperature, humidity and chemicals)

CERTIFICATES

- Our sheets rely to the norm ISO 7823-1 : 2003 regarding types, dimensions and characteristics
- Our management system fulfils the requirements of the ISO 9001 : 2015

TYPICAL VALUES

	Measurement Method	Unit	Value
General characteristics			
Density	ISO 1183	g/cm ³	1.19
Water absorption (24h)	ISO 62	%	0.3
Water absorption (8 days)	ISO 62	%	0.5
Thickness tolerance			± (0.4 mm + 0.1 x thickness)
Mechanical properties			
Modulus of elasticity (23 °C)	ISO 527-2	MPa	3300
Tensile strength (23 °C)	ISO 527	MPa	76
Charpy impact strength (un-notched)	ISO 179/2D	KJ/m ²	12
Surface hardness (Rockwell scale M)	ISO 2039	-	100
Thermal properties			
Vicat softening point (B50)	ISO 306	°C	115
Coefficient of linear expansion	ISO 11359	mm/m/°C	0.065
Maximum continuous service temperature	-	°C	85
Maximum heating temperature	-	°C	200
Linear shrinkage after heating	-	%	< 2
Forming temperature	-	°C	165-190
Optical properties			
Light transmittance (3 mm)	ISO 13468	20 to 25%	Depending on reference
Flammability			
Self-ignition temperature	-	°C	~ 450
Melt behaviour when burning	-	-	Non drip
Glow wire resistance	EN 60695-2-11	°C	750
Euroclass classification	EN 13501	-	E
UL	UL 94	-	HB

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