

# ALTUGLAS® CN NIGHT&DAY

The Altuglas® CN 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.

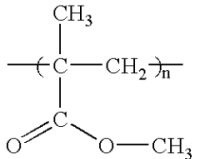
Today different options are available:

- 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 has 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)

# ALTUGLAS® CN DAY&NIGHT

## 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 : 2008

## TECHNICAL SPECIFICATIONS

	Measurement Method	Unit	Value
<b>General Characteristics</b>			
Density	ISO 1183	g/cm <sup>3</sup>	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)	
<b>Mechanical properties</b>			
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 <sup>2</sup>	12
Surface hardness (Rockwell scale M)	IS 2039	-	100
<b>Thermal properties</b>			
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
<b>Optical properties</b>			
Light transmittance (3 mm)	ISO 13468	20 to 25%	Depending on reference
<b>Flammability</b>			
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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See MSDS for Health & Safety Considerations