

# ALTUGLAS® CN ELIT

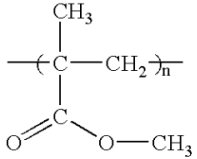
The Altuglas® CN Elit is a transparent product designed for edge lit application. The light source needs to be positioned at 1, preferably 2 opposite edge(s) of the sheet. The light will then be evenly spread over complete surface of the sheet due to special composition of the material. The best performance can be reached by optimising the 'entry window' for the light, means edge polishing will help maximising the light input, thus also the light output.

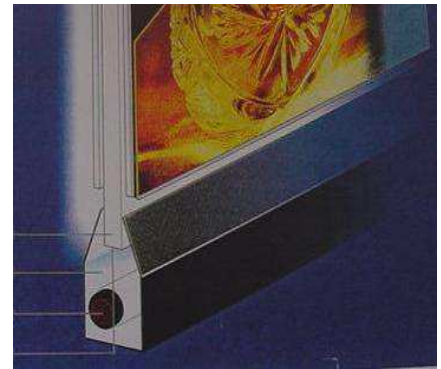
Do not stick anything to or on the Elit sheet surface because this will disturb the final evenness when illuminated.

The evenness of illumination and level of light output can only be determined by building a prototype in full size of the application.

It can be easily cut, drilled, polished. For thermoforming drape moulding is possible, line bending is not recommended (light transport will be disturbed and not pass the bend).

## MAIN PROPERTIES

PMMA (Polymethylmethacrylate)	
Light	
Transparent	
UV resistant - No Yellowing	
Thermoformable	
Easy machining	



## MAIN APPLICATIONS

- Illuminated poster frames
- City light boxes
- Blade 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 stored 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 indoor at a dry place
- 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 ELIT

## 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	ISO 13468	%	90
<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