

ALTUGLAS® SIGNATURE

Altuglas® Signature is a special grade with fabrics imbedded inside the PMMA sheets. The Signature grade is specifically designed for POS, shop fitting, furniture and general decorative application. Altuglas® Signature is available with five different types of fabrics imbedded inside the material. A LED source can be used on the edge, the decorative illumination of the sheet will be visible due to the presence of fabrics.

There is no distortion due to the fabrics and the sheets still offer an outstanding quality of light transmission.

Our sheets can be easily cut, drilled, milled, polished and thermoformed (stretching the material is not recommended). The time and temperature for heating Altuglas® Signature prior to thermoforming are identical to those of standard grade.

Our sheets are twice as light as glass and as clear as crystal, but more robust.

MAIN PROPERTIES

PMMA (Polymethylmethacrylate)	$\begin{array}{c} \text{CH}_3 \\ \\ -(\text{C}-\text{CH}_2)_n- \\ \\ \text{O}=\text{C}-\text{O}-\text{CH}_3 \end{array}$
Light	
Transparent	
UV resistant - No Yellowing	
Thermoformable	
Easy machining	



MAIN APPLICATIONS

- POP/POS
- Shop fitting
- Railings
- furniture
- Decoration

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)

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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

TECHNICAL SPECIFICATIONS

	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
Flexural strength	ISO 178	MPa	130
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
Flammability			
Self-ignition temperature	-	°C	~ 450
Melt behaviour when burning	-	-	Non drip
Euroclass classification	EN 13501	-	E
UL	UL 94	-	HB

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <http://www.arkema.com/en/products/product-safety/disclaimer/index.html>

See MSDS for Health & Safety Considerations

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