

ALTUGLAS® EI 25-EI 50

The Altuglas® EI 25 clear and Altuglas® EI 50 clear are extruded acrylic sheets developed to meet the requirements of applications needing high impact resistance. The polymer structure of this material has been modified by an exclusive additive that enables the sheet to resist impact. Half the weight of the glass and it can be easily thermoformed, bended, cut, drilled and glued. There's no limit to your imagination.

MAIN PROPERTIES

PMMA (Polymethylmethacrylate)	$\begin{array}{c} \text{CH}_3 \\ \\ -(\text{C}-\text{CH}_2)_n- \\ \\ \text{C}=\text{O} \quad \text{O}-\text{CH}_3 \end{array}$
Light weight	
Transparent	
Glossy	
UV resistant - No Yellowing	
Easy formable	
Easy machining	
high Impact resistance	



MAIN APPLICATIONS

- POS, display
- Signage
- Glazing
- Skydome
- Machine cover
- Windshield
- Urban fittings

PACKAGING

- our standard masking film transparent green offers a strong adhesion thanks to an additional adhesive layer.
- our product is store on wood pallets with a cardboard sheet at the bottom and the top.
- The sheets are protected by a clear polyethylene film covering the entire stack.
- Strapped pallet
- the total weight of the pallet and 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)

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CERTIFICATES

- our sheets rely to the norm ISO 7823-2 : 2003 regarding types, dimensions and characteristics

TYPICAL PROPERTIES

	Measurement Method	Unit	Typical Value	Typical Value
			Altuglas® EI 25	Altuglas® EI 50
General Characteristics				
Density	ISO 1183	g/cm ³	1.17	1.16
Water absorption (24h)	ISO 62	%	0.33	0.36
Thickness Tolerance: sheet less than 3mm +/- 10 % ; sheet 3mm to 20 mm +/- 5%				
Mechanical properties				
Flexural Modulus (23°C)	ISO 178 (1mm/mn)	MPa	2400	2100
Tensile strength (23°C)	ISO 527	MPa	56	50
Elongation at break	ISO 527	MPa	32	45
Charpy impact strength unnotched	ISO 179/1fU	KJ/m ²	63	85
Charpy impact strength notched	ISO 179/1eA	KJ/m ²	4	5
Thermal properties				
Vicat 50 N	ISO 306	°C	102	100
Coefficient of linear expansion	ASTM D 696	mm/m/°C	0.075	0.082
Maximum continuous service temperature	-	°C	75	73
Maximum heating temperature	-	°C	180	180
Forming temperature	-	°C	140-175	140-175
Flammability				
Euroclass classification	EN 13501	-	E	E
UL	UL 94	-	HB	HB
Optical properties				
Light transmittance (3 mm)	ASTM D 1003	%	92	91,5
Haze	ASTM D 1003	%	0.6	0.9

Note: the indicated typical values are the average values obtained in the laboratory on clear samples 3mm thick .

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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