

OROGLAS® SHADE

The Oroglas® Shade is a transparent grey or transparent brown product. Hundreds of colours and light transmissions are available. It can be easily thermoformed, bended, cut, drilled and glued. There's no limit to your imagination.

PROPRIETES

PMMA (Polymethylmethacrylate)	$\begin{array}{c} \text{CH}_3 \\ \\ \text{---}(\text{C} \text{---} \text{CH}_2)_n\text{---} \\ \\ \text{C} \\ // \quad \backslash \\ \text{O} \quad \text{O} \text{---} \text{CH}_3 \end{array}$
Light	
Transparent grey or brown	
UV resistant - No change of colour	
Thermoformable	
Easy machining	



MAIN APPLICATIONS

- Furniture
- Cosmetic
- Shop fitting

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 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: 2008

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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)	IS 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		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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