

ACRILICO COLATO CRYLUX[®] OPALE 2000



PRODUCT IDENTIFICATION

CRYLUX[®] is the brand name for cast polymethyl methacrylate sheets from Polycasa.

The composition of the final product is 90-95% PMMA + additives (stabilisers, plasticizers, dyes and pigments, release agents).

CRYLUX[®] sheets are produced and tested according to UNE EN ISO 7823-1.

CHARACTERISTICS

CRYLUX[®] 2000 is an opal white reference with the following light transmissions depending on the thickness:

Thickness	Light transmission	Thickness	Light transmission
3 mm	74%	8 mm	52%
4 mm	67%	10 mm	49%
5 mm	60%	15 mm	44%
6 mm	58%	20 mm	40%

APPLICATIONS

CRYLUX[®] 2000 ARD has been designed to be used among others:

- Signs.
- Furniture
- Publicity.
- Glazing.

FABRICATION AND FINISHING TECHNIQUES

CRYLUX[®] sheets are easy to handle.

Sawing, drilling, gluing, printing, milling, mechanical polishing, vacuum forming, hot bending do not offer any problems to the CRYLUX[®] range.



TECHNICAL DATA

Property	Method	Unit	CRYLUX [®]
Density	ISO 1183	g/cm ³	1.19
Water absorption	ISO 62, Method A	%	0.2
Rockwell hardness	ISO 2039-2	M scale	100
	ISO 2039-2	M scale	105

MECHANICAL

Property	Method	Unit	CRYLUX [®]
Tensile Strength	ISO 527	MPa	75
Elongation	ISO 527	%	6
Tensile Modulus	ISO 527	MPa	3400
Flexural Strength	ISO 178	MPa	120
Flexural Modulus	ISO 178	MPa	3200
Charpy (unnotched)	ISO 179	kJ/m ²	17
Charpy (notched)	ISO 179	kJ/m ²	2

OPTICAL

Property	Method	Unit	CRYLUX [®]
Light transmission	EN 13468-2	%	92*
Refractive index	ISO 489	n _D ²⁰	1.492

*Clear material

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THERMAL

Property	Method	Unit	CRYLUX [®]
Vicat Temp. (VST/B 50)	ISO 306	°C	110
Specific Heat Capacity	ISO 3146-C-60°C	J/g.K	2.16
Linear thermal expansion	ISO 11359-2	mm/m°C	0.07
Thermal conductivity	DIN 52612	W/m.K	0.19
Max. service temperature continuous use		°C	80
Max service temperature short term use		°C	90
Degradation temperature		°C	>280

ELECTRICAL

Property	Method	Unit	CRYLUX [®]
Surface resistivity	IEC 60093	Ω	10 ¹⁴
Volume resistivity	IEC 60093	Ω x m	10 ¹⁵
Electrical strength	IEC 60243-1	kV/mm	10
Dielectric strength	DIN EN 60243-1	kV/mm	30
Dielectrical dissipation factor 50 Hz	DIN 53483-2		0.06
Dielectrical dissipation factor 1 KHz	DIN 53483-2		0.04
Dielectrical dissipation factor 1 MHz	DIN 53483-2		0.02
Relative permittivity 50 Hz	DIN 53483-2		2.7
Relative permittivity 1 KHz	DIN 53483-2		3.1
Relative permittivity 1MHz	DIN 53483-2		2.7

Note: These technical data of our products are typical ones (4 mm clear); the actually measured values are subjected to production variations.

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