

ACRILICO COLATO CRYLUX[®] Bianco 3014



1. 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 (stabilizers, plasticizers, dyes and pigments, release agents).

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

2. CHARACTERISTICS

CRYLUX[®] 3014 is an opaque white sheet. It is resistant to UV rays, shows good thermal stability, low water absorption and good chemical resistance. It has the best abrasion resistance in our thermoplastic's product range.

CRYLUX[®] 3014 sheets are easy to handle, and most molding techniques are applicable to it, allowing attractive designs.

3. APPLICATIONS

- Decoration.
- Signs / Publicity.
- Industrial pieces.
- Furniture.

4. FABRICATING AND FINISHING TECHNIQUES

Due to their mechanical properties, it is as easy to manipulate.

To avoid damage during transport and handling, they are supplied protected with PE film on both surfaces. Upper surface is identified with our CRYLUX[®] logo.

More detailed information on CRYLUX[®] can be found in the "USER GUIDE", available on request.

5. TECHNICAL DATA

GENERAL

Property	Method	Units	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	Units	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

THERMAL

Property	Method	Units	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

OPTICAL

Property	Method	Units	CRYLUX [®]
Light transmission	EN 13468-2	%	92
Refractive index	ISO 489	₂₀ n ^D	1.492

ELECTRICAL

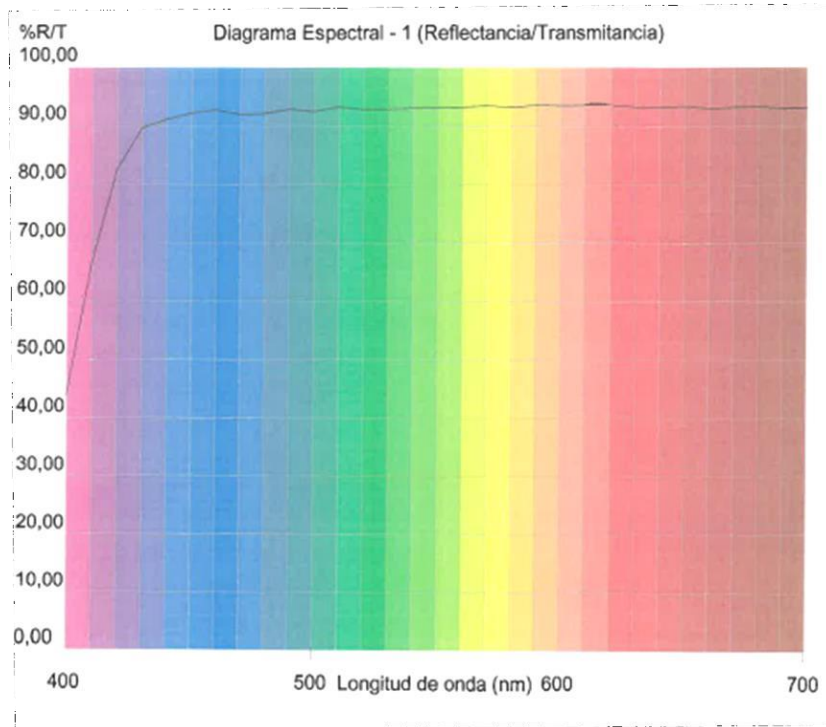
Property	Method	Units	CRYLUX [®]
Surface resistivity	IEC 60093	Ω	10 ¹⁴
Volume resistivity	IEC 60093	Ω x m	10 ¹⁵
Electrical strength	IEC 60243-1	kV/mm	10
Dielectric strength	DIN EN 60243-1	kV/mm	30
Dielectrical dissipation factor 50 Hz	DIN 53483-2		0.06
Dielectrical dissipation factor 1 KHz	DIN 53483-2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

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6. LIGHT PERFORMANCE



Reflectance spectrum in visible range for CRYLUX[®] 3014 in 3 mm thickness

CRYLUX[®] 3014 FLS has a light transmission $\leq 5\%$.

Thickness	Light transmission glossy finish
3 mm	5%
5 mm	4%
6 mm	4%
8 mm	3%
10 mm	3%
20 mm	0,7%

Note: These technical data of our products are typical ones; the actually measured values are subject to production variations.