

FRAME GRADE PMMA (Acrylic) SHEET

GENERAL PROPERTIES		CONDITIONS	TEST METHOD	UNIT	VALUE
Density			ISO 1183	gr/cm³	1,19
Water Absorbtion (24h)		23 °C / 50% RH	ISO 62	%	0,3
Moulding Shrinkage			ASTM D-955	%	0,2 - 0,6
Maximum Continuous Operating Temp.				°C	70
MECHANICAL PROPERTIES					
Tensile Strength at Break		23 °C	ISO 527-2	MPa	75
Elongation at break		23 °C	ISO 527-2	%	5
Tensile Modulus		23 °C	ISO 527-2	MPa	3200
Flexural Strength at Break		23 °C	ISO 178	MPa	120
Flexural Modulus		23 °C	ISO 178	MPa	3100
Charpy Impact Strength with Notched		23 °C	ISO 179	kJ/m²	2,0
Rockwell Hardness, M Scale			ISO 2039-2		92
THERMAL PROPERTIES					
Vicat Temperature		50 N	ISO 306	°C	105
Deflection temperature under load		1,8 MPa	ISO 75	°C	99
Coefficient of linear expansion			ISO 11359-2	mm/m °C	0,07
OPTICAL PROPERTIES					
Light Transmission (Clear)			ASTM D1003	%	≥ 91
Haze (Clear)			ASTM D1044	%	< 0,5
UV Blocking (320 – 380nm)*				%	99
ELECTRICAL PROPERTIES					
Dielectrical Strength			DIN 53481	kV/mm	20
Dielectric Constant		to 1 KHz	DIN 53483		3,1
FLAMMABILITY					
Fire Rating			UL94		HB
			DIN 4102		B2
			EN 13501-1		E
DIMENSIONS					
Thickness		1 - 15 mm			
Width		1220 and 2050 mm	(Depends on customer requests)		
Length		2440 and 3050 mm	(Depends on customer requests)		
ALLOWED BLACK SPECS and INCLUSIONS **					
Inclusion Defect Size			Sheet Thickness (t) (t ≤ 5)		
Under 0,2 mm			Negligible		
Between 0,2 - 0,8 mm			8 pieces		
Above 0,8 mm			Not Acceptable		

*Depends on customer request

** Classification refers to allowable defects per 1m² of sheet

POLICAM PMMA sheets have certification of EN ISO 7823-2 standard.

POLICAM FRAME GRADE UVF

SUPERIOR CLARITY. LONG-LASTING COLOR PROTECTION.

Policam Frame Grade UVF PMMA sheets; in addition to the superior features of Frame Grade sheets, the advanced UV protection technology ensures that colors remain as vivid as the first day for many years in picture framing applications such as photos, artwork, paintings and frames.

By filtering UV rays from sunlight and indoor lighting that cause fading and discoloration, it helps prevent color degradation in photos, prints and works of art over time. Offering glass-like clarity while being much lighter and more impact-resistant than glass, it ensures safe use. Ideal for large format framing applications, Policam Frame Grade UVF PMMA sheets provide excellent machinability in cutting, drilling, bending and polishing processes, making professional production easier.

With premium surface quality, high optical performance and UV protection, it is an aesthetic, safe and long-lasting framing solution for artwork, photographs, posters and valuable prints.



PREMIUM
SURFACE QUALITY



SUPERIOR
OPTICAL QUALITY



HIGH LIGHT
TRANSMITTANCE



EASY
MACHINABILITY



LIGHTWEIGHT
AND SAFE



SPECIAL FOR
FRAME APPLICATIONS



HIGH LIGHT TRANSMITTANCE
Up to 92% high light transmittance provides aesthetic and professional framing applications.



UV PROTECTED
Advanced UV protection technology filters harmful UV rays and helps protect photos, prints and works of art from fading and discoloration.



EASY MACHINABILITY
It has excellent machinability in cutting, drilling, bending and polishing processes.



DURABLE AND SAFE
It is much lighter than glass and impact-resistant, ensuring safe use.

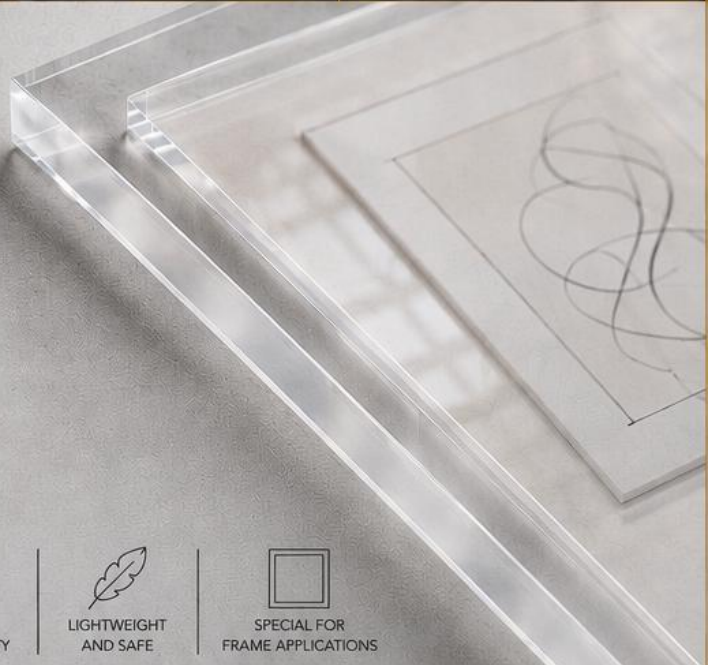
POLICAM FRAME GRADE

SUPERIOR CLARITY. PERFECT PRESENTATION.

Policam Frame Grade PMMA sheets are specially developed for picture framing applications such as photos, artwork and paintings. With superior optical quality and high light transmittance, it presents the true colors and finest details of your works with maximum clarity.

Offering glass-like clarity while being much lighter and more impact-resistant than glass, it ensures safe use. Ideal for large format framing applications, Policam Frame Grade PMMA sheets provide excellent machinability in cutting, drilling, bending and polishing processes, making professional production easier.

With premium surface quality, high optical performance and clarity, it is a reliable solution for all framing projects from artwork to photographs, posters and decorative applications.



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HIGH LIGHT TRANSMITTANCE
Up to 92% high light transmittance provides aesthetic and professional framing applications.



OPTICAL QUALITY
Glass-like clarity and superior surface quality present the true colors and finest details of your works with maximum clarity.



EASY MACHINABILITY
It has excellent machinability in cutting, drilling, bending and polishing processes.



DURABLE AND SAFE
It is much lighter than glass and impact-resistant with its long-lasting structure, ensuring safe use.

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