

DIGITAL PRINTING 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	%	92
Surface tension (corona pen measurement)				dyn/cm	> 50
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 (Depends on customer requests)			
Length		2440 (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.

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