

PMMA (Acrylic) EXTRUDED SHEET

GENERAL PROPERTIES	CONDITIONS	TEST METHOD	UNIT	VALUE
Density		ISO 1183	gr/cm ³	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/m ²	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
Haze (Clear)		ASTM D1044	%	< 0,5
Refractive Index		ISO 489		1,49
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)		

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

PMMA (Acrylic) EXTRUDED SHEET

PROPERTIES

- 92% light transmittance
- Natural UV resistance
- More scratch resistant than comparative plastics
- Chemical resistance
- Easy to fabricate
- Unique outdoor properties
- Suitable for food contact

APPLICATION AREAS

- Signs, signage
- Glazing, skylights
- Shelters
- Furniture
- Screen printing
- Lighting
- Sound barriers

COLORS AND % LIGHT TRANSMITTANCE VALUES (ASTM D1003)

THICKNESS (mm)	CLEAR	WHITE	WHITE DIFFUSER	OPAL	OPAQUE WHITE	BLACK	BRONZE	SMOKE BRONZE	SMOKE GREY
1	92	-	-	60	-	-	-	-	-
1,5	92	30	23	60 / 76	-	-	-	-	-
2	92	30	23 / 30	60 / 76	7	< 1	-	45	82
3	92	30	23 / 30	46 / 60 / 76	3 / 7	< 1	5	45	82
4	92	30	23 / 30	60 / 76	7	< 1	-	-	-
5	92	25	16 / 23 / 30	46 / 60 / 76	7	< 1	5	-	-
6	92	25	16 / 23	-	7	< 1	-	-	-
7	92	20	-	-	-	< 1	-	-	-
8	92	20	12 / 23	76	1	< 1	-	-	-
9	92	15	-	-	-	< 1	-	-	-
10	92	15	16 / 23 / 30	76	-	< 1	-	-	-
12	92	-	-	-	1	-	4	-	-
15	92	-	-	-	-	-	-	-	-

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