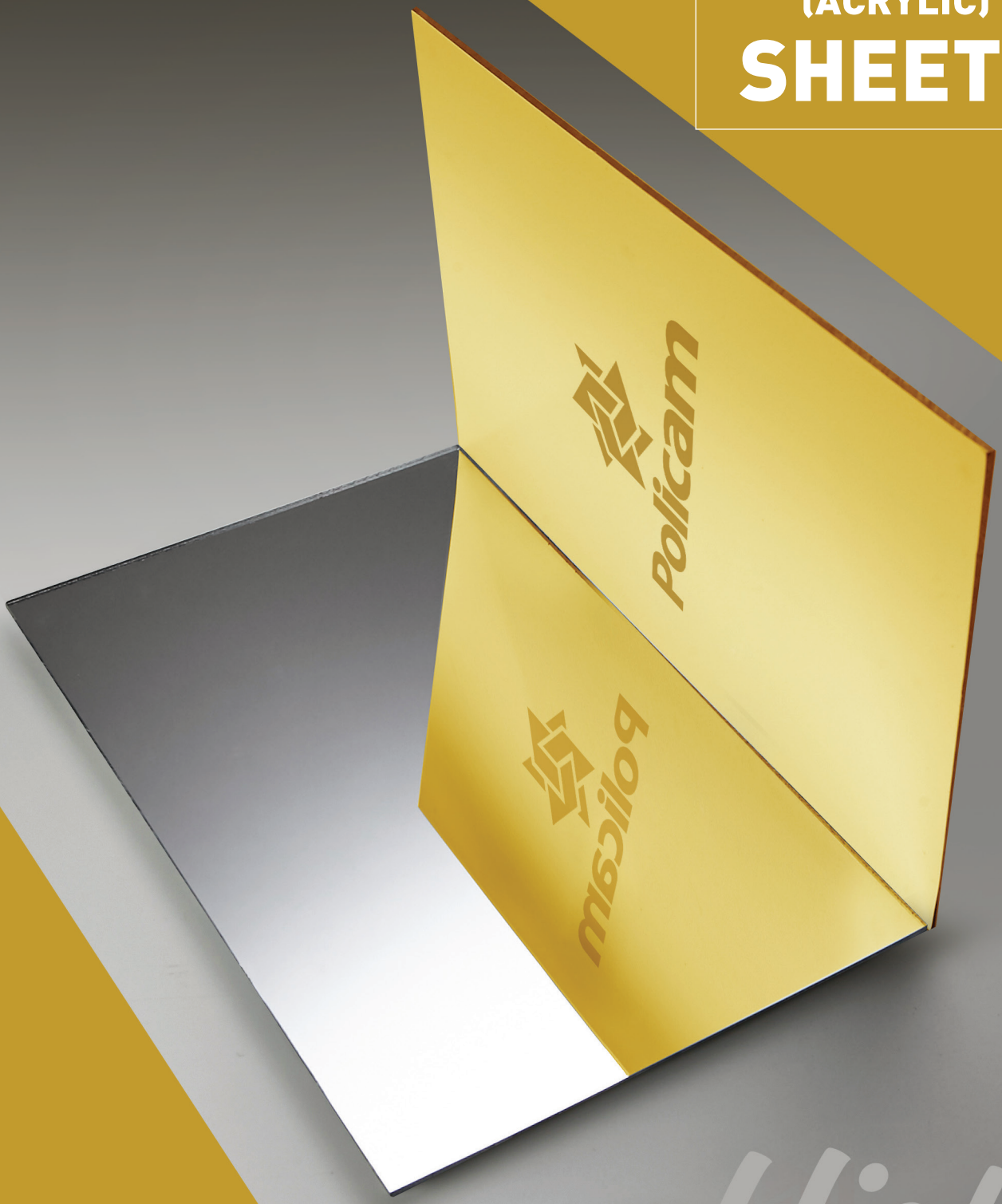
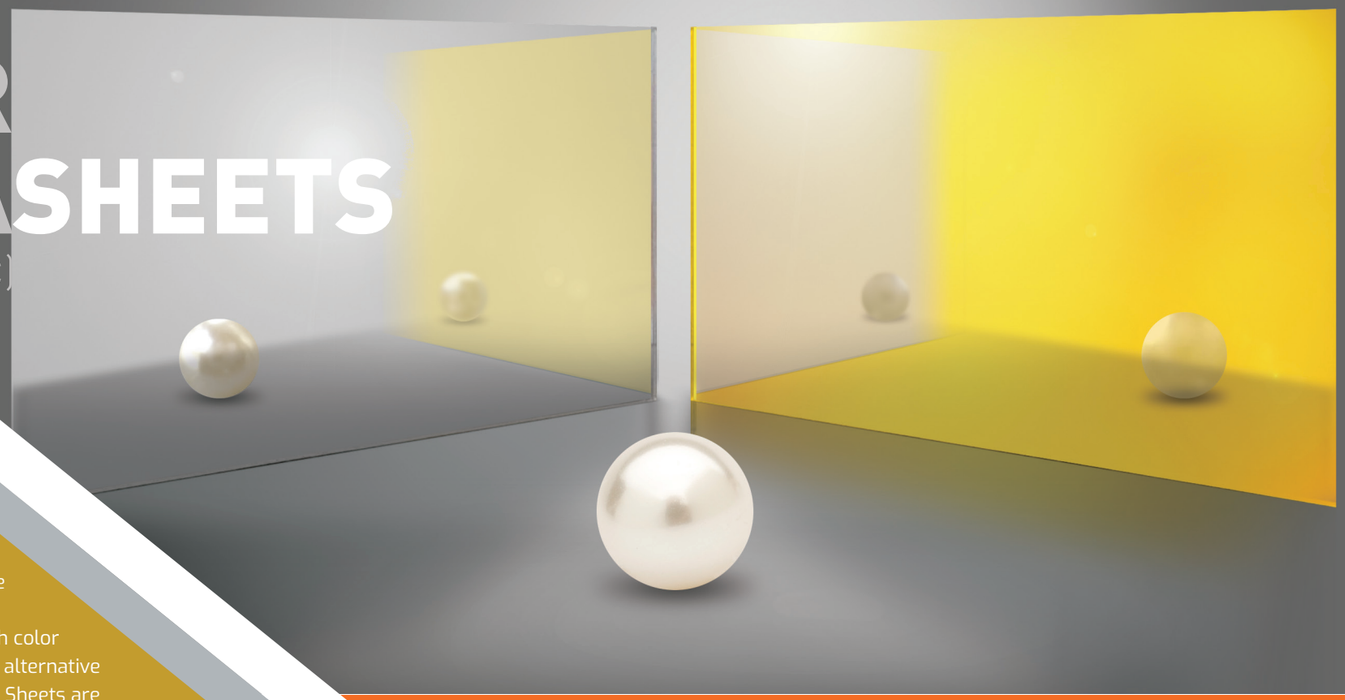
MIRROR PMMA (ACRYLIC) SHEETS



High Reflectivity

MIRROR PMMA SHEETS
(ACRYLIC)



Policam

Policam Mirror PMMA (Acrylic) Sheets are produced from extruded acrylic sheet, which has excellent one-sided reflection performance thanks to Physical Vapor Deposition (PVD) process. PVD technology which supplies thin film coating is eco-friendly and does not leave any chemical waste to environment.
The back surface is covered with an opaque paint. There are different color options other than silver and gold. It can be frequently preferred for decoration applications with its rich color options. Policam Mirror PMMA (Acrylic) Sheets are the best alternative to traditional glass mirrors. Policam Mirror PMMA (Acrylic) Sheets are 17 times stronger than glass. It is suitable for security applications thanks to its high impact and fracture resistance. It does not create sharp parts in a possible break, reducing the risk of injury. This causes it to be preferred in social areas such as schools and hospitals.
Policam Mirror PMMA (Acrylic) Sheets are lightter material (half weight of same thickness glass mirror) materials. At the same time, Policam Mirror PMMA (Acrylic) Sheets are much more flexible than glass mirrors. It provides advantages for machining operations such as drilling, sawing, milling, laser cutting. Policam Mirror PMMA (Acrylic) Sheets are extruded with camera inspection system. By the help of this technology surface defects which are not allowed according to ISO EN 7823-2 standart is automatically seperated thus, surface defects that may occur in the mirror are prevented during extrusion process. This property moves Policam Mirror PMMA (Acrylic) Sheets one step further in terms of quality.

STANDARD COLOURS

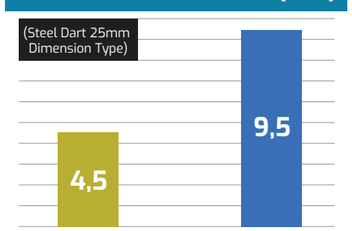
- SILVER
- GOLD*
- BRONZE

Please ask for other colors to Işık Plastik.

POLICAM MIRROR EX-PMMA	THICKNESS in mm	TOLERANCE FOR THICKNESS
	1	± 0,15
	1,5	± 0,15
	2	± 0,20
	3	± 0,30
	4	± 0,20
	5	± 0,25
	6	± 0,30

** Can be available with adhesive tape for 48" x 96" (1220mm x 2440mm) dimensions.

IMPACT RESISTANCE (Nm)



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
MECHANICAL PROPERTIES				
Elongation at break	23 °C	ISO 527-2	%	7
Tensile Modulus	23 °C	ISO 527-2	MPa	3200
Flexural Modulus	23 °C	ISO 178	MPa	3300
Charpy Impact Strength with Notched	23 °C	ISO 179-1eA	kj/m²	2
Rockwell Hardness M Scale		ISO 2039-2	M -scale	92
THERMAL PROPERTIES				
Vicat Temperatur	50 N	ISO 306	°C	105
Deflection temperature under load	1,8 MPa	ISO 75	°C	100
Coefficient of linear expansion		ISO 11359-2	mm/m°C	0,07
ELECTRICAL PROPERTIES				
Dielectrical Strength		DIN 53481	kV/mm	20
Dielectric Constant	to 1 KHz	DIN 53483		3,1
GENERAL PROPERTIES**				
Reflectance		ASTM 1003	%	80-90
Cross-Cut		ASTM 3359		5B
Corrosion Test (200h)		ISIK METHOD	Corner Corrosion < 1mm	

*Applicable to Policam PMMA (Acrylic) sheet.

**Applicable to Policam Mirror PMMA (Acrylic) sheet. Contact us for full mirror material specification.

POLICAM MIRROR EX-PMMA	STANDARD WIDTH (mm)	*STANDARD LENGTH (mm)	WIDTH TOLERANCE	LENGTH TOLERANCE
	2050	3050	0 ; +9 mm	0 % ; +0,3 %
	1220	2440	0 ; +6 mm	0 ; +9 mm

* Depends on customer request
*Policam pmma sheets are produced according to EN 7823-2, ISO 9001, ISO 14000, ISO 45001.

REFLECTIVITY
Işık Plastik is using the highest purity aluminium which is one of the key factor for reflectivity. Thanks to this property and even thickness distribution of Aluminum onto the sheet. Policam Mirrored PMMA sheets have excellent reflectivity. Its reflective value is min 85% in the visible region wavelength. The reflection feature is supported by the paint used behind the mirror.

Why Policam Mirror Sheets are better compared to glass mirror sheets?

EASY TO FORM AND SHAPE

EASY TO FABRICATE

LIGHTWEIGHT

EASY TO CUT

FLEXIBLE

DURABLE
Policam Mirror PMMA (Acrylic) Sheets are very durable because of their long useful life. They can be used for many years while preserving their mechanical and optical properties.

HEAT
The maximum service temperature of Policam Mirror PMMA (Acrylic) Sheets are 90°. It can be easily processed at lower temperatures than glass mirror and maintains its form easily.

LIGHTWEIGHT
The density of Policam Mirror PMMA (Acrylic) Sheets are half of glass. It is lighter than glass mirrors. Easily portable, supply cost and safety advantages during installation.

IMPACT RESISTANCE
The impact resistance of Policam Mirror PMMA (Acrylic) Sheets are much better than glass mirrors. This property gives it an advantage over conventional glass mirrors. Impact resistance of POLICAM Mirrored PMMA is 17 times higher than glass mirror.

CLARITY AND TRANSPARENCY
Policam Acrylic sheets and Policam Mirror PMMA (Acrylic) Sheets are produced in ISO 7 class clean room. Its well filtered system supplies closed to zero dust and with this conditions, Policam Acrylic sheets are best solution for metallization. It gets higher clarity, higher light transmission at the end gets higher reflectivity after metallization.

MIRROR PMMA (ACRYLIC) SHEETS

Policam

Please ask for fabrication details from www.isikplastik.com.tr

IşıkPlastik

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