

PRODUCT DATA SHEET (REV20251203)

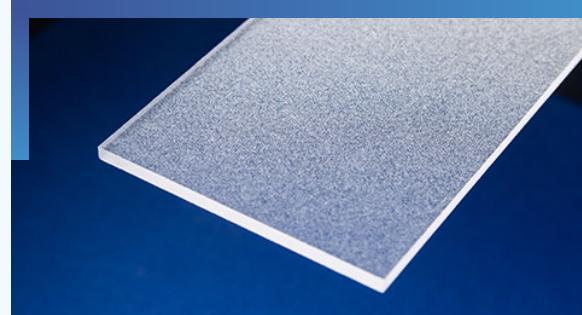
PMMA FROSTED (ACRYLIC) SHEET

Elevate your designs with SRT Frosted Acrylic (PMMA-Frost). This premium extruded sheet features a unique dual-texture finish: a velvety satin surface on one side and a non-reflective matt finish on the other. With a light transmission of 70%, it softens light to create a warm, sophisticated glow while effectively hiding LED hotspots.

Unlike standard acrylic, the surface is engineered to be insensitive to fingerprints and highly resistant to abrasion, making it the perfect material for high-touch applications like office partitions, furniture, and retail displays.

KEY ADVANTAGES

- Dual Satin / Matt surface finish
- Insensitive to fingerprints
- High abrasion resistance
- Excellent light diffusion (No hotspots)
- Soft, warm aesthetic
- Easy to laser cut and polish



TYPICAL APPLICATIONS

- General Lighting Fixtures: Used for lamp shades, pendant lights, and simple panel lights where soft, ambient light is needed.
- Office Partitions/Room Dividers: Provides a translucent barrier that allows light to pass through while blurring the visibility of objects and people on the other side.
- Windows and Shower Enclosures: Replaces frosted glass for safety (shatter-resistance) and light transmission.



AVAILABLE DIMENSIONS

- Sizes: 2500 x 1250 mm
- 2 - 3 mm - other thicknesses on request
- Color - Neutral White Satin
- Cut-to-size and custom fabrication available



The information contained within this datasheet is for guidance only.

The data is not exhaustive. All figures quoted are nominal. Any applications should be checked with SRT Plastics prior to use.

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PMMA **FROSTED** (ACRYLIC) SHEET

PROPERTY	VALUE	UNIT	STANDARD
PHYSICAL PROPERTIES			
Density	1,19	g/cm ³	ISO 1183
Refractive index (20°C)	1,49	-	ASTM D-542
Water Absorption (24h)	0,20	%	ISO 62
MECHANICAL PROPERTIES			
Tensile Strength	76	MPa	ISO 527
Elastic Modulus	3200	MPa	ISO 527
Flexural Modulus	3200	MPa	ISO 178
Charpy Impact (Unnotched)	20	kJ/m ²	ISO 179
Rockwell Hardness	M95 - M105	R Scale	ISO 2039-2
THERMAL PROPERTIES			
Max Service Temperature (Continuous)	85	°C	Internal
Vicat Softening Temp. (50N)	103	°C	ISO 306
HDT/A (1.80 Mpa)	95	°C	ISO 75-2
Coeff. Of Linear Thermal Expansion	7.0	x10 ⁻⁵ /°C	ISO 11359-2
FLAMMABILITY			
Flammability Rating (>3mm)	HB	-	UL94
OPTICAL PROPERTIES			
Light Transmission	70% Satin Finish		ASTM D-1003

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