

PRODUCT DATA SHEET (REV20260825)

PMMA **UV TRANSMITTING** (ACRYLIC) SHEET

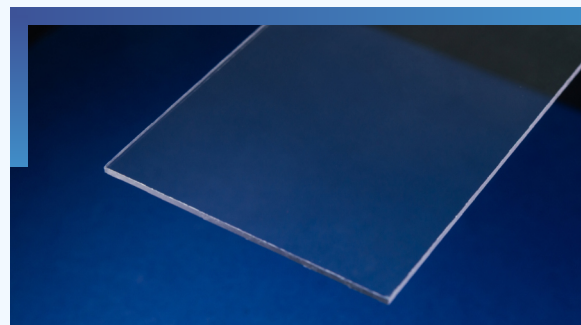
Maximize UV efficiency with SRT UV-Transmitting Acrylic (PMMA-UVT).

While standard acrylic naturally filters out UV radiation, this specialized extruded sheet is engineered to allow the transmission of ultraviolet rays. It combines the high impact strength and pristine clarity of standard PMMA with superior UV permeability, making it the essential choice for sunbeds, solariums, and reptile terrariums.

It offers excellent mechanical stability and is resistant to the degradation often caused by prolonged UV exposure.

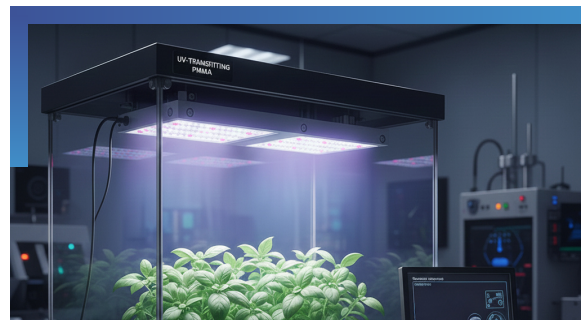
KEY ADVANTAGES

- High UV-A / UV-B transmission
- Exceptional optical clarity
- Resistant to UV degradation
- Lightweight and durable
- Easy to clean and hygienic
- Halogen-free material



TYPICAL APPLICATIONS

- Tanning Beds/Equipment: This is one of the most common applications. The sheets act as a protective barrier over the UV lamps, allowing the necessary UV-A and UV-B rays to pass through to facilitate tanning while protecting users from direct contact with the lamps.
- Full Spectrum Lighting Enclosures: Used as diffusers or covers in fixtures designed to mimic natural daylight (including the UV spectrum) for health, therapeutic, or aesthetic purposes.



AVAILABLE DIMENSIONS

- Sizes: 3050 x 2050 mm
- 2 mm to 5 mm
- Contact us for custom thickness requirements
- Cut-to-size and custom thermoforming 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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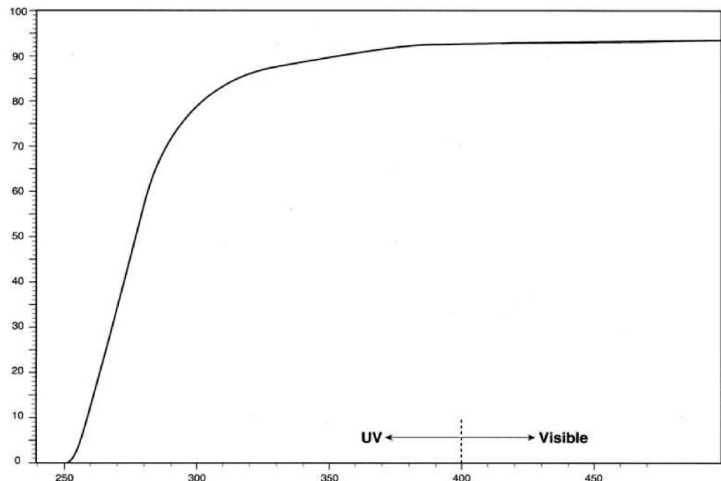
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PROPERTY	VALUE	UNIT	STANDARD
PHYSICAL PROPERTIES			
Density	1,19	g/cm³	ISO 1183
Refractive index (20°C)	1,49	-	ASTM D-542
Water Absorption (24h)	0,20	%	ISO 62
MECHANICAL PROPERTIES			
Tensile Strength	76	MPa	ISO 527
Elastic Modulus	3200	MPa	ISO 527
Flexural Modulus	3200	MPa	ISO 178
Charpy Impact (Unnotched)	20	kJ/m²	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			
UV Transmission	High UV-A / UV-B Permeable		ASTM D-1003

UV Transmission Graph

UVA: 320 - 400 nm

UVB: 290 - 320 nm



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