

PRODUCT DATA SHEET (REV20251203)

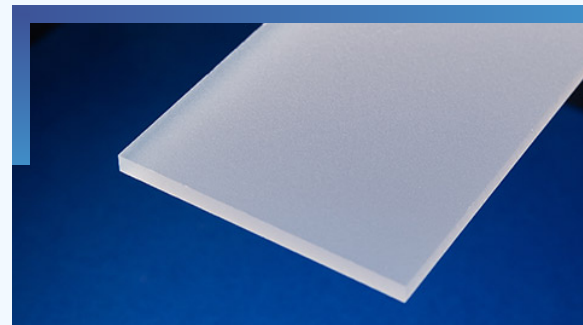
PMMA **MICROPRISM** (ACRYLIC) SHEET

Achieve superior visual comfort with SRT Microprism Acrylic (PMMA-Prism). This clear extruded sheet features a precision-engineered micro-prismatic pattern on one side, designed specifically to control light distribution and minimize glare.

Capable of achieving a UGR < 19 rating, it enables lighting manufacturers to comply with strict EN 12464 standards for office workspaces. With a high light transmission of 90%, it directs light efficiently downwards, reducing eye strain and eliminating the harsh 'sparkle' often associated with direct LED illumination.

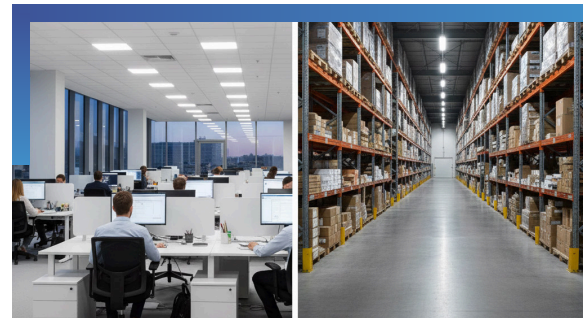
KEY ADVANTAGES

- UGR < 19 (Excellent Glare Control)
- High light transmission (90%)
- Complies with EN 12464
- Micro-patterned prismatic surface
- Uniform light distribution
- Lightweight alternative to glass



TYPICAL APPLICATIONS

- Commercial LED Panel Lighting Requiring Low Glare (UGR < 19): Microprism sheets are essential as the final diffuser in office, classroom, and healthcare lighting fixtures where strict Unified Glare Rating (UGR) standards must be met. The engineered prisms redirect high-angle light downwards, reducing uncomfortable glare for people viewing computer screens, which simple scattering materials (opal/frosted) cannot achieve.



AVAILABLE DIMENSIONS

- Sizes: 2500 x 1250 mm
- 2 - 3 mm
- Pattern - 150 Microprism
- Cut-to-size 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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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	90% / UGR < 19		EN 12464

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