

PRODUCT DATA SHEET (REV20251203)

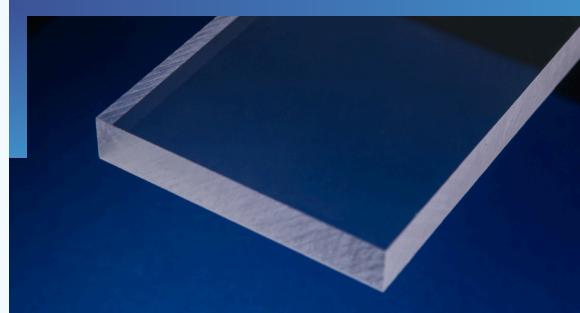
PMMA HIGH IMPACT (ACRYLIC) SHEET (HI25 + HI50)

Upgrade durability without sacrificing aesthetics. SRT High Impact Acrylic (PMMA-HI) is engineered with a specialized elastomer modifier that significantly increases mechanical strength compared to standard acrylic.

Available in two grades (HI25 and HI50), this material bridges the gap between standard PMMA and Polycarbonate. It offers the same pristine optical quality and UV stability as standard acrylic but is far more resistant to cracking and shattering during fabrication and use. Ideal for signage, skylights, and automotive glazing where safety and durability are paramount.

KEY ADVANTAGES

- Superior impact resistance
- Excellent optical quality
- UV stable and weather resistant
- Easy to thermoform and bend
- Resistant to cracking during installation
- Halogen-free material



TYPICAL APPLICATIONS

- Windshields (e.g., utility vehicles, golf carts, specialty equipment)
- Number plates (Covers/Mounts)
- Bus stops and transit shelters
- Bike shelters
- Signage and illuminated displays
- Lighting components and fixtures (where a durable cover is needed)



AVAILABLE DIMENSIONS

- Sizes: 3050 x 2050 mm
- 2 mm to 5 mm
- Grades: Available in HI25 (Medium Impact) and HI50 (High Impact)
- Service: 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 **HIGH IMPACT** (ACRYLIC) SHEET (HI25 + HI50)

PROPERTY	VALUE (HI25/HI50)	UNIT	STANDARD
PHYSICAL PROPERTIES			
Density	1,18 / 1,17	g/cm ³	ISO 1183
Refractive index (20°C)	1,49 / 1,49	-	ASTM D-542
Moisture Absorption (24h, 23°C, 50% RH)	0,20 / 0,20	%	ISO 62
MECHANICAL PROPERTIES			
Tensile Strength	60 / 53	MPa	ISO 527
Elongation At Break	21 / 29	%	ISO 527
Elastic Modulus	2680 / 2420	N/mm ²	ISO 527
Charpy Impact (Unnotched)	35 / 50	kJ/m ²	ISO 179
THERMAL PROPERTIES			
Vicat Softening Temp. (50N)	98 / 95	°C	ISO 306
HDT/A (1.80 Mpa)	92 / 90	°C	ISO 75-2
Coeff. Of Linear Thermal Expansion	7.0 / 7.0	x10 ⁻⁵ /°C	ISO 11359-2
FLAMMABILITY			
Flammability Rating (>3mm)	HB / HB	-	UL94

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