

PRODUCT DATA SHEET (REV20250527)

PC / POLYCARBONATE **TRANSLUCENT COLOURED** SHEET

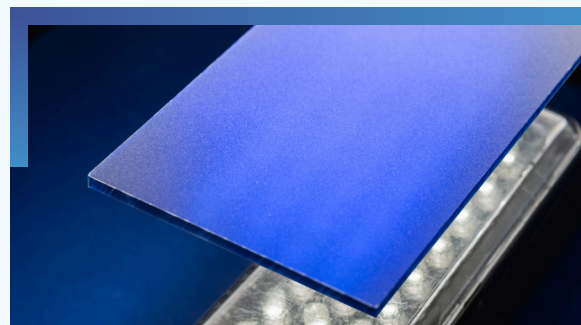
Frosted Polycarbonate for Stylish Impact-Resistant Interiors and Signage.

SRT Plastics Polycarbonate Clear Frosted is a transparent sheet with a refined frosted surface finish, perfect for projects that demand a modern aesthetic, diffused appearance, and durable performance.

Combining high impact resistance with thermoformability and fire safety compliance, Clear Frost offers a functional and elegant alternative to glass in interior and display applications. Available in multiple transparent tints upon request, it brings design flexibility with reliable strength.

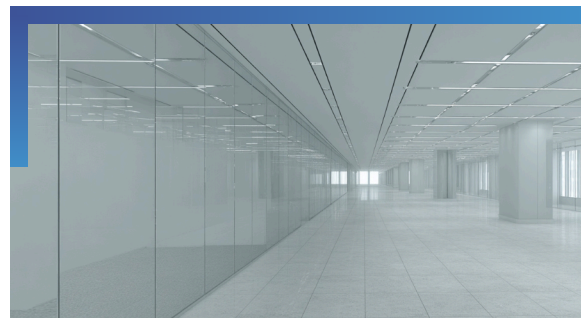
KEY ADVANTAGES

- Modern frosted finish with excellent aesthetic appeal
- Over 10× stronger than high-impact PMMA
- Half the weight of glass for easier handling and mounting
- Easy to cut, machine, and thermoform
- Suitable for backlit or diffused light effects
- Available in a range of translucent colour options



TYPICAL APPLICATIONS

- Interior design panels and privacy screens
- High-end retail displays and visual merchandising
- Signage requiring a diffused or matte appearance
- Decorative covers and architectural partitions
- Lightboxes and illuminated wall features
- Protective yet stylish panels for commercial interiors



AVAILABLE DIMENSIONS

- Standard Sheet Sizes: 2050 x 1100 mm
- Thickness Range: 2 mm to 6 mm
- Colours: Available in different translucent colours
- Embossing: Smooth
- Other sizes and thicknesses on request



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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	1,2	g/cm ³	ISO 1183
Refractive index (20°C)	1.586	-	ISO 489
Moisture Absorption (24h, 23°C, 50% RH)	0.15	%	ISO 62
MECHANICAL PROPERTIES			
Tensile Strength (Yield / Break)	60 / 70	N/mm ²	ISO 527
Elongation (Yield / Break)	6 / 110	%	ISO 527
Elastic Modulus	>2300	N/mm ²	ISO 527
Flexural Modulus	>2300	N/mm ²	ISO 178
Impact Strength (charpy unnotched, -40°C)	NB	kJ/m ²	ISO 179
Impact Strength (charpy notched, -30°C)	11	kJ/m ²	ISO 179
Izod Notched Impact (+23°C / -30°C)	65 / 10	kJ/m ²	ISO 180
THERMAL PROPERTIES			
Heat Deflection Temp (HDT A - 1.80 Nmm ²)	132	°C	ISO 75
Heat Deflection Temp (HDT B - 0.45 Nmm ²)	142	°C	ISO 75
Vicat Softening Temp (VST - B120 / B50)	149 / 148 °C	°C	ISO 306
Thermal Conductivity	0.20	W/m-K	ISO 8302
Linear Thermal Expansion (20°C - 70°C)	65x10 ⁻⁶	K ⁻¹	ISO 11359-2
ELECTRICAL PROPERTIES			
Volume Resistivity (Dry)	>10 ¹⁴	Ω.m	IEC 62631
Surface Resistivity (Dry)	10 ¹⁶	Ω	IEC 62631
Dielectric Strength (Dry)	30	kV/mm	IEC 60243
Dielectric Constant (Dry, 50Hz)	3		IEC 62631
Dielectric Constant (Dry 1MHz)	2.9		IEC 62631
Dissipation Factor (tan δ) (Dry 50Hz)	0.001		IEC 62631
Dissipation Factor (tan δ) (Dry 1MHz)	0.01		IEC 62631

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