

PRODUCT DATA SHEET (REV20250527)

### PC / POLYCARBONATE **CLEAR TRANSPARENT SHEET**

Engineered for clarity, durability, and design flexibility.

SRT Plastics offers a high-performance clear polycarbonate sheet designed for demanding applications requiring impact strength, optical clarity, and thermal resilience.

This virtually unbreakable thermoplastic provides a lightweight yet robust alternative to glass, with excellent formability and fire performance characteristics. Our PC/Polycarbonate – Clear Transparent Sheet is ideal for both protective and visual applications across a wide range of industries.

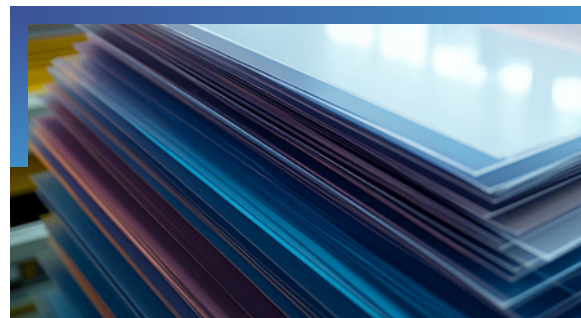
#### KEY ADVANTAGES

- Crystal-clear transparency with excellent optical quality
- Lightweight – approximately 50% lighter than glass
- Impact resistant – over 10x stronger than standard PMMA
- Thermoformable – easy to shape and fabricate
- Strong fire behavior performance, compliant with EN 13501-1
- Melts in fire to allow heat and smoke venting, reducing flame spread



#### TYPICAL APPLICATIONS

- Machine guarding and safety shields
- Interior safety glazing and partitions
- Vandal protection screens
- Indoor signage and display systems
- Riot shields and protective panels
- Medical equipment and helmet visors



#### AVAILABLE DIMENSIONS

- Standard Sheet Sizes: 2050 x 3050 mm, 2050 x 1250 mm
- Thickness Range: 0.8 mm to 20 mm
- Custom sizes, textures, and thicknesses available upon 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 <sup>3</sup>	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	60 /70	N/mm <sup>2</sup>	ISO 527
Elongation	6 / 110	%	ISO 527
Elastic Modulus	>2300	N/mm <sup>2</sup>	ISO 527
Flexural Modulus	>2300	N/mm <sup>2</sup>	ISO 178
Impact Strength (charpy unnotched, -40°C)	NB	kJ/m <sup>2</sup>	ISO 179
Impact Strength (charpy notched, -30°C)	11	kJ/m <sup>2</sup>	ISO 179
Izod Notched Impact (+23°C / -30°C)	65 / 10	kJ/m <sup>2</sup>	ISO 180
THERMAL PROPERTIES			
Heat Deflection Temp (HDT A - 1.80 Nmm <sup>2</sup> )	132	°C	ISO 75
Heat Deflection Temp (HDT B - 0.45 Nmm <sup>2</sup> )	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 <sup>-6</sup>	K <sup>-1</sup>	ISO 11359-2
ELECTRICAL PROPERTIES			
Volume Resistivity (Dry)	>10 <sup>14</sup>	Ω.m	IEC 62631
Surface Resistivity (Dry)	10 <sup>16</sup>	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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