

PRODUCT DATA SHEET (REV20250527)

PC / POLYCARBONATE **MULTIWALL X STRUCTURE 11-WALL SHEET**

Maximum Thermal Insulation with Light Weight and Superior Impact Resistance.

SRT Plastics Multiwall X Structure 11-Wall is a premium 11-wall multiwall polycarbonate sheet that offers exceptional thermal insulation, light diffusion, and long-term weatherability. Designed for energy-efficient glazing, its low weight and high rigidity reduce structural demands while maintaining excellent impact resistance.

Available in clear, opal, and bronze, and in 25 mm or 32 mm thicknesses, this sheet is ideal for large-span roofs, walls, and partitions where performance and appearance matter.

KEY ADVANTAGES

- 11-wall structure for industry-leading thermal insulation
- Good light transmission with reduced electricity needs for lighting
- Over 10× stronger than PMMA and 4× stronger than PVC
- One or two-sided UV protection for reliable outdoor durability
- Lightweight for easy handling, cutting, and installation
- Classified B-s1, d0 (EN 13501-1) for excellent fire safety performance



TYPICAL APPLICATIONS

- Energy-saving roofing and cladding in commercial and public buildings
- Domes, greenhouses, skylights, sheds, and conservatories
- Swimming pool covers and thermal partitions in leisure facilities
- Suspended ceilings, carports, shopping centers, and transit stations
- Farm buildings and light-controlled agricultural structures
- Backlit advertising panels and architectural signage



AVAILABLE DIMENSIONS

- Available in 25 and 32mm
- Standard colours include clear, opal and bronze
- Available with one or two sided UV protection
- Custom colours available on request.
- Also available in Hammer Finish and Solar Control



The information contained within this datasheet is for guidance only.

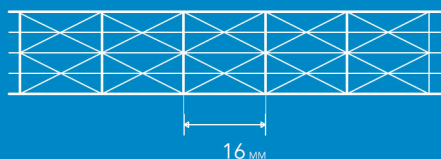
The data is not exhaustive. All figures quoted are nominal. Any applications should be checked with SRT Plastics prior to use.

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PROPERTY				VALUE	UNIT	STANDARD
PHYSICAL PROPERTIES						
Density				1,2	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 179/1eU
Impact Strength (charpy notched, -30°C)				11	kJ/m ²	ISO 179/1eA
Izod Notched Impact (+23°C / -30°C)				65 / 10	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES						
Coefficient of Linear Thermal Expansion (20-70°C)				65x10 ⁻⁶	K ⁻¹	ISO 11359-2
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 Temperature VST/B 120				149	°C	ISO 306
Vicat Temperature VST/B 50				148	°C	ISO 306
Thermal Conductivity				0.20	W/m.K	ISO 8302

Thickness	Rib Distance	Mass/Unit Area	U-Value	Width				Standard Colours			UV Sides
				2100	1250	1200	980	Clear	Opal	Bronze	
25mm	20mm	3200/3400g/m ²	1,4W/m ² *K	✓	✓	✓	✓	✓	✓	✓	1(2) / 1(2)
32mm	20mm	3600/3700g/m ²	1,2W/m ² *K	✓	✓	✓	✓	✓	✓	✓	1(2) / 1(2)



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