

PRODUCT DATA SHEET (REV20250527)

PC / POLYCARBONATE **MULTIWALL X STRUCTURE 5-WALL SHEET**

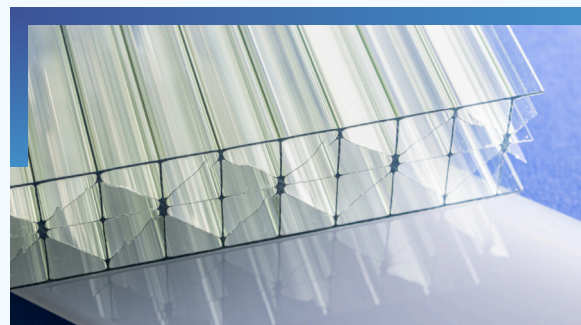
Extra-Stiff Multiwall Polycarbonate for Light-Weight, High-Performance Roofing and Cladding.

SRT Plastics Multiwall X Structure 5-Wall is an advanced extruded multiwall polycarbonate sheet with a reinforced cross structure that enhances stiffness while maintaining high light transmission. Designed to reduce the number of required glazing bars, this solution enables cost-efficient installation, greater transparency, and excellent thermal insulation.

Backed by a 10-year limited warranty, this product is ideal for both architectural and agricultural environments.

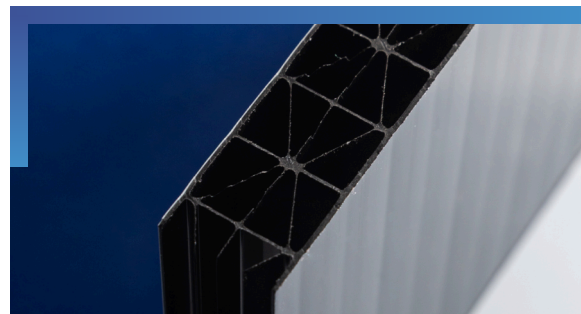
KEY ADVANTAGES

- Enhanced stiffness enables wider spans with fewer support structures
- High light transmission in clear and tinted variants
- One or two-sided UV protection for long-lasting outdoor performance
- Excellent thermal insulation thanks to multiwall design
- Lightweight for easy transport, cutting, and handling
- Fire classification B-s1, d0 according to EN 13501-1



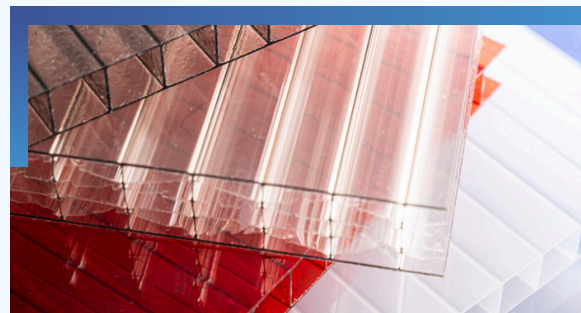
TYPICAL APPLICATIONS

- Roofing, façades, and vertical cladding in construction projects
- Greenhouses, barns, and farm buildings requiring thermal control
- Skylights, conservatories, pool enclosures, and suspended ceilings
- Transport and commercial structures like stations and stadiums
- Protective packaging for lighting optics and fragile goods
- Translucent advertising panels and illuminated signage



AVAILABLE DIMENSIONS

- Available in 10, 16, 20 and 25mm
- 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.

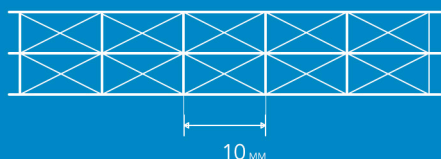
The data is not exhaustive. All figures quoted are nominal. Any applications should be checked with SRT Plastics prior to use.

PRODUCT DATA SHEET (REV20250527)

PC / POLYCARBONATE **MULTIWALL X STRUCTURE 5-WALL SHEET**

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	
4mm	10mm	1500/1600/1700g/m ²	2,5W/m ² *K	✓	✓	✓	✓	✓	✓	✓	1(2) / 1(2) / 1(2)
6mm	10mm	2400/2500/2600/m ²	2,0m ² *K	✓	✓	✓	✓	✓	✓	✓	1(2) / 1(2) / 1(2)
8mm	10mm	2800/3000g/m ²	1,8m ² *K	✓	✓	✓	✓	✓	✓	✓	1(2) / 1(2)
10mm	10mm	3200/3400g/m ²	1,6m ² *K	✓	✓	✓	✓	✓	✓	✓	1(2) / 1(2)



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.