

PRODUCT DATA SHEET (REV20250527)

### PC / POLYCARBONATE **MULTIWALL BOX 3-WALL SHEET**

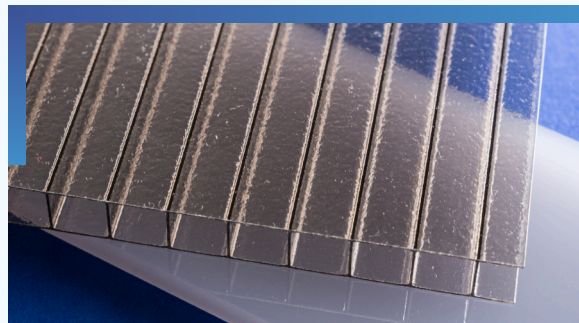
Triple-Wall Polycarbonate for High-Performance Glazing and Enhanced Thermal Insulation.

SRT Plastics Multiwall BOX 3-Wall is a robust triple-wall polycarbonate sheet designed for projects requiring improved thermal insulation, high light transmission, and reduced weight. With a UV-protected surface, excellent impact strength, and a clean, modern appearance, this product is ideal for roofing, cladding, and partitioning in both commercial and agricultural environments.

Its 16 mm format is available in clear, opal, and bronze, and all products are backed by a 10-year limited warranty.

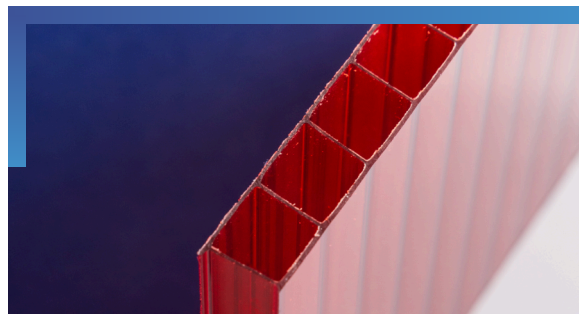
#### KEY ADVANTAGES

- Superior thermal insulation with multiwall structure (low U-value)
- High light transmission in clear and tinted finishes
- One-side UV protection as standard for long outdoor life
- Lightweight and easy to cut, bend, or install
- Outstanding impact resistance and weatherability
- 10-year limited warranty against yellowing, impact loss, and light degradation



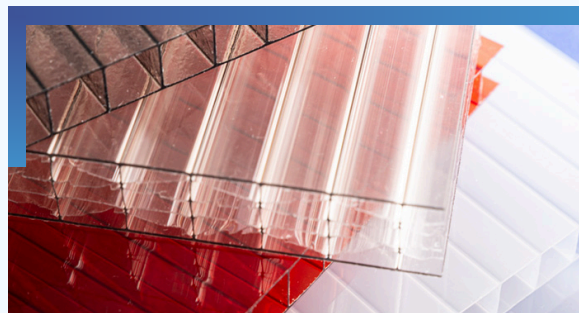
#### TYPICAL APPLICATIONS

- Roofing, cladding, and façades in commercial buildings and conservatories
- Domes, skylights, carports, swimming pool enclosures
- Agricultural buildings, greenhouses, and livestock shelters
- Suspended ceilings and light-diffusing interior partitions
- Packaging for lamp optics and fragile components
- Translucent advertising panels and illuminated signage



#### AVAILABLE DIMENSIONS

- 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



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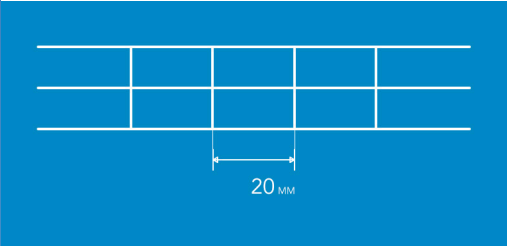
The data is not exhaustive. All figures quoted are nominal. Any applications should be checked with SRT Plastics prior to use.

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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 (Yield / Break)		63 / 70	N/mm <sup>2</sup>	ISO 527
Elongation (Yield / Break)		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 179/1eU
Impact Strength (charpy notched, -30°C)		11	kJ/m <sup>2</sup>	ISO 179/1eA
Izod Notched Impact (+23°C / -30°C)		65 / 10	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL PROPERTIES				
Coefficient of Linear Thermal Expansion (20-70°C)		65x10 <sup>-6</sup>	K <sup>-1</sup>	ISO 11359-2
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 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	
16mm	20mm	2500/2700g/m <sup>2</sup>	2,3W/m <sup>2</sup> *K	x	✓	✓	✓	✓	✓	✓	1(2) / 1(2)



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