

PRODUCT DATA SHEET (REV20250527)

### PC / POLYCARBONATE **MULTIWALL BOX 7-WALL SHEET**

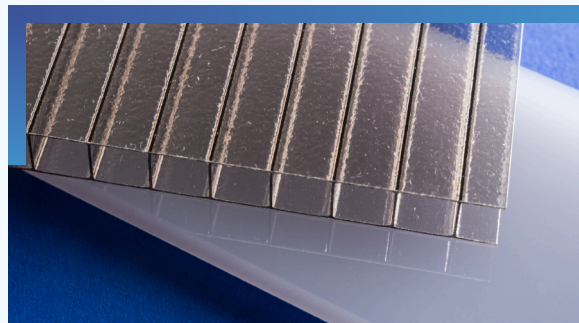
Ultra-Insulating Multiwall Polycarbonate for Lightweight, Weatherproof Glazing Solutions.

SRT Plastics Multiwall Box 7-Wall is a high-performance seven-wall polycarbonate sheet designed to deliver exceptional thermal insulation with minimal weight. Featuring a multi-chamber structure and UV protection as standard, it combines high light transmission, mechanical durability, and aesthetic clarity.

Available in 16 mm and 20 mm thicknesses and in clear, opal, or bronze, this product is ideal for energy-conscious architecture and horticultural glazing.

#### KEY ADVANTAGES

- Seven-wall construction ensures very low U-values for energy efficiency
- High light transmission and soft light diffusion
- One- or two-sided UV protection for outdoor use
- Excellent impact resistance and weather stability
- Lightweight, easy to install, transport, and fabricate
- Backed by a 10-year limited warranty on light, strength, and colour stability



#### TYPICAL APPLICATIONS

- Energy-efficient roofing, cladding, and skylights in commercial buildings
- Greenhouses, barns, and farm structures requiring stable indoor climate
- Domes, sheds, conservatories, and swimming pool enclosures
- Metro stations, retail centers, and public space canopies
- Suspended ceilings, interior partitions, and acoustic barriers
- Translucent signage, light-diffusing panels, and illuminated display boxes



#### AVAILABLE DIMENSIONS

- Available in 16 and 20mm
- 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.

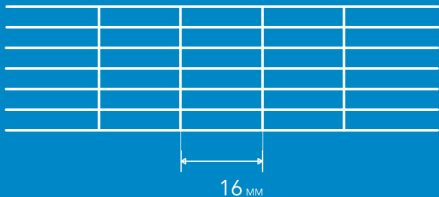
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PROPERTY				VALUE	UNIT	STANDARD
PHYSICAL PROPERTIES						
Density				1,2	g/cm <sup>3</sup>	ISO 1183
Refractive index (20°C)				1.586	-	ISO 489
Moisture Absorption (24h, 23°C, 50% RH)				0.15	%	ISO 62
MECHANICAL PROPERTIES						
Tensile Strength (Yield / 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	16mm	2500/2600/2700g/m <sup>2</sup>	1,8W/m <sup>2</sup> *K	✓	✓	✓	✓	✓	✓	✓	1(2) / 1(2) / 1(2)
20mm	16mm	2800/3000g/m <sup>2</sup>	1,6W/m <sup>2</sup> *K	✓	✓	✓	✓	✓	✓	✓	1(2) / 1(2)



16 mm

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