



PRODUCT DATA SHEET

POLYCARBONATE ROOFING SOLUTIONS



6 MM SOLID POLYCARBONATE

ABOUT 6 MM SOLID POLYCARBONATE

6 mm Solid Polycarbonate is a Flat Extruded Polycarbonate Sheet with UV protection on both sides. It is available in clear only, offering excellent light diffusion without transparency. It has excellent impact resistance, fire performance and ease of installation and is an ideal candidate for a wide variety of interior and exterior applications.

PROPERTY	TEST METHOD	UNIT	VALUE
Physical			
Specific Gravity	ISO 1183	g/cm ³	1.20
Water Absorption, 23 °C, 24 hours	ISO 62	%	0.35
Equilibrium	ISO 62	%	0.35
Mechanical			
Tensile Stress, yield	ISO 527	N/mm ²	64.3
Tensile Modulus	ISO 527	N/mm ²	2330
Tensile Strain, yield	ISO 527	%	6
Tensile Strain, break	ISO 527	%	>70
Flexural Stress, yield	ISO 178	MPa	90
Flexural Modulus	ISO 178	MPa	>2600
Impact			
Izod Impact, notched 20°C	ISO 180/1A	kJ/m ²	>65
Thermal			
Vicat Softening Temperature, rate B/120	ISO 306	°C	150
Ball Pressure Test 75°C to 125°C	IEC 335-1	-	Passes
Mould Shrinkage	ASTM D1955	%	0.6 – 0.8
Thermal Expansion	ISO 11359-1,-2	10 ⁻⁶ /K	6.5
Optical			
Light Transmission 6 mm	ASTM D1003	%	81 - 90





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CHEMICAL RESISTANCE

6 mm Solid Polycarbonate has sufficient resistance to most chemical substances encountered in normal exterior use. In applications where the product will come into contact with aggressive chemicals, specific (application-related) testing of the material is always advised. It is essential to check the compatibility before use.

FIRE PERFORMANCE

6 mm Solid Polycarbonate is Class 1 fire rated and has passed the BS475 Pt7 test.

MAINTENANCE & CARE

6 mm Solid Polycarbonate should be treated with care:

1. Use generous amounts of lukewarm water to rinse sheet and soften dried dirt.
2. Make up a solution of lukewarm water & ordinary household cleaner or a mild soap, and use this to wash sheet. A sponge or soft cloth should be used to gently remove dirt and grime.
3. Rinse with clean lukewarm water and repeat washing if necessary.
4. After final rinse, dry off with a soft cloth.

6 mm Solid Polycarbonate sheets are particularly vulnerable to scratching.

- Do not scrub with brushes, abrasive materials or sharp instruments as these will mark the surface.
- Never use solvents, alkaline cleaners, thinner or abrasive cleaners.
- Never steam clean. Use low pressure, if pressure washing.
- Never use acetone, petrol, benzene or solvents containing Butyl Cellosolve or Isopropanol.
- Incorrect cleaning that in any way damages the sheet automatically renders void all warranties.

