

GENERAL DESCRIPTION

6mm solid polycarbonate sheet has UV protection on both sides. It is available in either clear offering excellent light diffusion without transparency. It has an excellent impact resistance an excellent fire performance, ease of installation and is an excellent candidate for a wide variety for 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	%	0.10
Equilibrium	ISO 62	%	0.35
Mechanical			
Tensile Stress, yield	ISO 527	N/mm ²	60
Tensile Modulus	ISO 527	N/mm ²	2350
Tensile Strain, yield	ISO 527	%	6
Tensile Strain, break	ISO 527	%	120
Flexural Stress, yield	ISO 178	MPa	90
Flexural Modulus	ISO 178	MPa	2300
Impact			
Izod Impact, notched 20°C	ISO 180/1A	kJ/m ²	65
-40°C		J	>37
Thermal			
Vicat Softening Temperature, rate B/120	ISO 306	°C	148
Ball Pressure Test 75°C – 125°C	IEC 335-1	-	Passes
Mould Shrinkage	ASTM D1955	%	0.6 – 0.8
Thermal Expansion	DIN 53752	1/ °C	7.10 ⁻⁵
Optical			
Light Transmission 6mm	ASTM D1003	%	79

CHEMICAL RESISTANCE

6mm 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 chemical, specific (application related) testing of the material is always advised. It is essential to check the compatibility before use.

FIRE PERFORMANCE

6mm solid polycarbonate is Class 1Y fire rated and has passed the BS475 Pt7 test.

REGULATORY INFORMATION

This product is not considered dangerous under EC Directives 67/548/EEC, as amended. This MSDS has been prepared in accordance with EU Directive 91/155/EEC, as amended by 93/112/EC.

MAINTENANCE & CARE

6mm 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 solutions 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.

6mm 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 which in any way damages the sheet automatically renders void all warranties.