

Polycarbonate

Extruded polycarbonate flat sheet. The sheet is characterised by high optical clarity, light transmission, impact resistance and durability. The sheets are available as gloss or embossed. A range of standard widths and thickness are available in clear and colours.

TECHNICAL DATA		
COLOUR	Clear (S)	Bronze (CE)
THICKNESS (mm)	0.75mm	0.75mm
	1mm	1mm
	1.5mm	1.5mm
	2 – 12 mm	2 – 12 mm
	15mm	15mm
LIGHT TRANSMISSION: DIN 5036 (3mm)	92%	50%
WIDTH	Up to 2050 mm	Up to 2050 mm
LENGTH	As required	As required
SHEET WEIGHT	3.6 kg/m ² (3mm)	3.6 kg/m ² (3mm)
U-VALUE	5.41 W/m ² K (3mm)	5.41 W/m ² K (3mm)

Service Temperature

The sheet can be installed in a diversity of applications, with varying temperatures. The material's mechanical performance is known to remain stable in prolonged service in temperatures ranging from -20 to +100 °C (Short term unstressed -40 to +120 °C).

Installation

Applications must make adequate allowance for thermal movement, nominally 3.5 mm per metre. Adequate clearance must be allowed in the holes drilled for fixing and sheet lengths have to be limited so that there is not excessive movement at the ends. 3mm sheets can be cold curved down to a minimum radius of 450mm. For good design practice it is advised that a 3mm flat sheet not be curved below 525mm. It is essential that compatible gaskets or silicon be used in installation.

Fire Performance

The fire performance has been independently tested. The current test reports can be obtained from the technical department.

Print Preparation

Lukewarm water and ordinary non-abrasive household detergent and a sponge or soft cloth is normally sufficient, however for degreasing and cleaning prior to secondary operations the following solvents are suitable: ethanol, isopropanol and white kerosene.

Static

Rinsing the surface with water or antistatic cleaning agent can reduce static charge. Another method is to blow down the sheet with ionised air. The effect of this treatment is short term but usually sufficient for subsequent operations.