

PRODUCT IDENTIFICATION

X2 is a strong polymer sheet developed for outdoor use, suitable for installation in weather shelters such as bus shelters and similar structures.

CHEMICAL RESISTANCE

X2 withstands cleaning with mild solvents, as well as graffiti removal using chemicals such as denatured alcohol and isopropanol.

SURFACE PROPERTIES

The material's surface properties provide excellent adhesion for both digital printing and screen printing. Scratches may occur if the material is subjected to abrasion. Sharp objects should be avoided.

PHYSICAL PROPERTIES

	VALUE	STANDARD
Density (half the weight of glass)	1,25 g/cm ³	ISO 1183
Light transmission (Light source D65, thickness 1 mm)	88 %	DIN 5036, T.3
UV protection	96 %	
Refractive index	1,57	ISO 489
Moisture absorption (24 h, 23 °C, 50 % RH)	0,5 %	
Recommended range of temperature usage	-40 °C < x < 70 °C	

MECHANICAL PROPERTIES

	VALUE	STANDARD
Tensile strength at yield	50 N/mm ²	ISO 527-2
Elongation at break	> 35 %	ISO 527
Elastic modules	2100 N/mm ²	ISO 527
Flexural modules	2100 N/mm ²	ISO 178
Charpy unnotched impact break (+23 °C)	No break	ISO 179/2D
Izod notched impact break(-40 °C)	8 kJ/m ²	ISO 179/2D
Rockwell hardness	40	ISO 868

THERMAL PROPERTIES

	VALUE	STANDARD
Linear coefficient of thermal expansion (23–80 °C)	50 x 10 ⁻⁶ K ⁻¹	ISO 11359-2
Heat deflection temperature A (1,80 N/mm ²)	72 °C	ISO 75
Heat deflection temperature B (0,45 N/mm ²)	68 °C	ISO 75
Fire classification	Class B, S1, d0	EN 13501-1

DELIVERY PROGRAM

Thickness	8 mm, 10 mm
Standard dimensions	2000 x 2800 mm
Standard colour	Clear