

TECHNICAL DATA

VITROFLEX PC UV

VITROFLEX PC UV is an extruded transparent polycarbonate sheet with high impact resistance, which is very light and offers extra protection against UV radiation. It remains unchanged until temperatures of 120°C, always maintaining an exceptional surface and transparency. The Vitroflex PC UV weighs half as much as glass, making it a material suitable for outdoor use.

ADVANTAGES OF VITROFLEX PC UV

- Very high impact resistance.
- Resistance to high temperatures.
- Great transparency.
- High light transmission.
- Accuracy in thickness tolerance.
- Optimized for interior applications.
- Suitable for outdoor use.
- Surface finishes engraved and antireflex availables.
- Allows colouring.

TYPES AND FORMATS

With thicknesses ranging from 2 to 20mm, they are offered in standard size plates depending on their thickness:

2050x1250mm

2050x1525mm

3050x2050mm

There is also the option of colours, with a minimum order, which can be: bronze 130, bronze 132, smoke 133, opal, green, orange, blue and red. Special colours can also be produced.

APPLICATION AREAS

- Skylights.
- Facades.
- Covers.
- Screens.
- Promotional or advertising posters.
- Exterior or interior lighting.
- Nautical
- Industrial.
- Signalling and signage.

TECHNICAL SPECIFICATIONS - VITROFLEX PC UV

Properties	Value	Unitt	Standard
Physical properties			
Density	1.20	g/cm ³	ISO 1183
Water absorption 24h 23°C, 50% RH	0.15	%	ISO 62
Mechanical properties			
Tensile strength	63(70)	MPa	ISO 527
Traction elasticity module	2300	MPa	ISO 527
Elongation at break	6 (110)	%	ISO 527
Impact strength. Charpy method	NB		
Rockwell hardness	M70	R-scale	ISO 2039-2
Flexural strength	2300	MPa	ISO 178
Electrical properties			
Specific resistance	10 ¹⁶	Chm	IEC60093
Volume resistance	10 ¹⁶	Ohm.cm	IEC60093
Dielectric constant			
a) 50HZ	3		IEC60250
b) 1 MHz	2.9		IEC60250
Thermal properties			
Linear thermal expansion coefficient (23-80°C)	0.70	10-4 XK-1	ISO2039-2
VICAT softening temperature	148-149	°C	ISO 306
Bending temperature under charge (Method A, 1.8 MPa)	132	°C	ISO 75
Optical properties			
Total light transmission	88	%	
Fire properties			
PC 1-6 mm	Bs1d0		ISO13501-1
Fire classification	HB		UL94

The properties described here are typical values of the material. Polimer Tecnic is not responsible for the materials of a specific consignment to exactly match the given values, being able to carry out tests of that heading. The above information is based on our experience and is given in good faith. Due to some installation and processing factors that are beyond our knowledge and control, no guarantee is given regarding such information.