TECHNICAL DATA

VITROFLEX PC

VITROFLEX PC is a transparent polycarbonate sheet extrusion manufactured with high impact resistance, which is also very light. It also offers great firmness at high temperatures, always maintaining an exceptional surface and transparency. Its high quality makes it a suitable material for machining, printing and thermoforming.

ADVANTAGES OF VITROFLEX PC

- Very high impact resistance.
- Resistance to high temperatures.
- Great transparency.
- High light transmission.
- Accuracy in thickness tolerance.
- Optimized for interior applications.
- Suitable for indoor use, not for outdoor use.
- Surface finishes engraved and anti-reflex availables.
- Allows colouring.

TYPES AND FORMATS

With thicknesses ranging from 2 to 20mm, they are offered in standard size plates of:
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. We can also produce special colours upon request.

APPLICATION AREAS

- Interior signage.
- Interior displays.
- Stands.
- Industrial.
- Interior doors and partitions.
- Furniture.
- Light fixtures.
- Screens.
- Machinery protection.

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TECHNICAL SPECIFICATIONS - VITROFLEX PC

Properties	Value	Units	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}	Ohm	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 load (Method A, 1.8MPa)	132	°C	ISO 75
Optical properties			
Total light transmission	88	%	
Fire properties			
PC 1-6 mm	Bs1d0		ISO13501-1
Fire classification	HB		UL94

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