

TECHNICAL DATA

VITROFLEX FOAMED PVC

VITROFLEX FOAMED PVC as its name indicates, are PVC sheets foamed with CO² to reduce their density and weight per square metre, making them light yet rigid and insulating. It is one of the most versatile plastic materials available for interiors, thanks to its high resistance, together with simple handling and a non-toxic character. It is also a rigid plastic, which insulates against moisture and is not combustible.

VITROFLEX FOAMED PVC is ideal for decoration, digital printing, screen printing and signage, and can be manufactured in various colours.

ADVANTAGES OF VITROFLEX FOAMED PVC

- Sheet rigidity.
- Light structure.
- Prevents moisture absorption.
- Excellent thermal and acoustic insulation.
- Easy handling. You can paint, print, saw, drill, engrave or mill it without complicated methods or tools.
- Non-toxic.
- Recyclable.

TYPES AND FORMATS

With a wide range of thicknesses (1, 2, 3, 4, 5, 6, 8, 10, 15, 19* and 30mm) it is normally available in white and in some basic colours in certain thicknesses. There is also the option of customized colours with minimum orders.

APPLICATION AREAS

- Digital printing.
- Separations and screens.
- Acoustic and thermal insulation.
- Screen printing.
- Lettering
- Signalling.
- Interiors.
- Partitions.

TECHNICAL SPECIFICATIONS – VITROFLEX FOAMED PVC

Properties	Value	Units	Standard
Physical properties			
Density	0.50	g/cm ³	ISO 1183
Mechanical properties			
Tensile strength	>12	MPa	ISO 527
Traction elasticity module	750	MPa	ISO 527
Elongation at break	15	%	ISO 527
Impact strength	>12	kJ/m ²	ISO 179
Flexural strength	20	MPa	ISO 178
Electrical properties			
Surface resistivity	>5x10 ¹⁴	Ohm	DIN53482
Dielectric constant	13	kV/mm	MSZEN60243-1
Thermal properties			
VICAT softening temperature	72	°C	ISO 306
Linear thermal expansion coefficient	0.75	K-1x10 ⁻⁴	DIN53752
Thermal conductivity	0.08	W/Mk	DIN52612
Fire resistance properties			
	B2		DIN4102(D)
	V0		UL94(US)
	M2		NFP 92-501(F)

* Currently the PVC 19 mm, may present small irregularities on its surface, which will not affect the print quality.

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.