

TECHNICAL DATA

VITROFLEX PMMA BLOCKS offer high impact resistance, and are ten times lighter than glass. They offer high clarity and a very high optical quality, starting from 30mm thick. It is an ideal material for applications where good visibility is important. In addition, its great resistance to ageing makes it an excellent product for outdoor use, as it stays virtually unchanged in the open. VITROFLEX PMMA BLOCKS are also suitable for thermoforming, since the material is easy to handle and also offers a good performance against temperature fluctuations, while it does not release toxic gases in its combustion.

ADVANTAGES OF VITROFLEX PMMA BLOCKS

- Excellent optical quality.
- Unlimited size through invisible chemical bonds.
- Very hard methacrylate plates 30 to 200mm thick
- Low level of internal tensions.
- High resistance to the elements.
- Impact resistance.
- High resistance to ageing.
- High thermal and acoustic resistance.
- Does not give off toxic gases when burning. Halogen free.
- Large special formats available.

TYPES AND FORMATS

Their thicknesses range from 30 to 250mm, reaching up to 8000mm in length. Larger dimensions and greater thickness upon request. Colours upon request. Special options for LED lighting also available.

APPLICATION AREAS

- Aquariums.
- Indoor and outdoor pools.
- Water tanks.
- Ponds.
- Marine nurseries.
- Overflowing walls.
- Fish farms.
- Transparent urns.
- Large decorative elements.
- Security perimeter fences.



TECHNICAL SPECIFICATIONS - VITROFLEX PMMA BLOCKS

Properties	Value	Units	Standard
Physical properties			
Density Water absorption Mechanical properties	1.2 0.19	g/cm³ %	ISO 1183 ISO 62
Tensile strength Traction elasticity module Elongation at break Impact strength. Charpy method Rockwell hardness Flexural strength	72 3000 4 16 100 116	MPa MPa % kJ/m ² R-scale MPa	ISO 527 ISO 527 ISO 527 ISO 179/2D ISO 2039-2 ISO 178
Specific resistance Volume resistance Dielectric constant a) 50HZ b) 1 MHz Thermal properties	10 ¹⁵ 10 ¹⁵ 3.6 2,8	Ohm Ohm.cm	DN53458 DN53458 DN53483
Linear thermal expansion coefficient (23-70°C) VICAT softening temperature Bending temperature under load (Method A, 1.8MPa) Dimension variation at high temperature (contraction) Inflammability Optical properties	70.6.10 ⁻⁶ 105 105 2.3 HB	K ¹ ℃ ℃ % -	EN2155-12 ISO 306 ISO 75 UL94
Total light transmission Artificial light ageing XENOTEST HAZE turbidity value Refractive index n p ²³ (Method A) Fire properties	92 5 0.5 1.492	% Grey scale % -	ISO 2857 ISO 4892 EN 2155-9 ISO / R489
Construction (EU) Lighting and transparency	E HB		EN13501-1 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.