

TECHNICAL DATA

VITROFLEX EXTRUSION PMMA

VITROFLEX PMMA EXTRUSION is a highly transparent material with better impact resistance and ten times lighter than glass. It has excellent transparency and very easy handling, allowing simple processes of cutting, milling and polishing with carpentry tools. VITROFLEX PMMA EXTRUSION is also suitable for thermoforming and machining, being an easy handling material that does not release toxic combustion gases. It is a product that remains unchanged over time while maintaining its properties, transparency and brightness.

ADVANTAGES OF VITROFLEX EXTRUSION PMMA

- Features of a methacrylate cast, but at a cheaper cost.
- Good resistance.
- Excellent transparency.
- Perfect for outdoor applications.
- Accuracy of thickness.
- Free of halogens.

TYPES AND FORMATS

Thicknesses range from 1 to 30mm, offering different sizes of plate, which can also be made to measure. They offer various finishes, including: gloss, matt, anti-reflective, surface textures, engraving, etc. With colouration possibilities, VITROFLEX PMMA EXTRUSION is also available for food use.

APPLICATION AREAS

- Acoustic screens.
- Aquariums.
- Covers.
- Urban furniture.
- Signalling and signage.
- Boat windows and windshields.
- Basketball boards.
- Furniture.
- Skylights.
- Restaurant menu stands.
- Advertising posters.
- Solar / photovoltaic panels.
- Greenhouses.
- Exhibition stands.
- Tubes and bars.
- Glazing and protection.
- Enclosures.
- Screens and acoustic barriers.

TECHNICAL SPECIFICATIONS - VITROFLEX EXTRUSION PMMA

Properties	Value	Units	Standard
Physical properties			
Density	1.2	g/cm ³	ISO 1183
Mechanical properties			
Tensile strength	72	MPa	ISO 527
Traction elasticity module	3562	MPa	ISO 527
Elongation at break	4	%	ISO 527
Rockwell hardness	95	R-scale	ISO 2039-2
Flexural modulus	3300	MPa	ISO 178
Flexural strength	110	MPa	ISO 178
Izod impact strength	1.5	KL/m ²	ISO 180a
Thermal properties			
Thermal linear expansion coefficient (0-50°C)	6.5E-5	1/°C	EN2155-12
VICAT softening temperature	103	°C	ISO 306
Bending temperature under load (Method A, 1.8MPa)	95	°C	ISO 75
Optical properties			
Refractive index n _D ²³ (Method A)	1.492	-	ISO / R489
Fire properties			
Construction (EU)	E	-	EN13501-1
Lighting and transparency	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.