

## TECHNICAL DATASHEET

# VITROFLEX PET

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VITROFLEX PET is a polymer, supplied in sheets and coils of transparent color, which has a good behavior against fire, impacts and great resistance to chemical agents

### ADVANTAGES PET

- Excellent transparency and shine.
- Great resistance to chemical products.
- High resistance to impact and breakage.
- Thermoformable, they do not require previous drying.
- Excellent fire resistance, low generation of non-toxic smoke.
- Recyclable, respectful with the environment, totally combustible, without emission of toxic substances that pollute in landfills.
- Can be laser cut.
- Does not splinter.

### TYPES AND FORMATS

Available in various sizes and thicknesses.

- Sheet from 0.35 to 0.80mm
- Plate from 1 to 4mm
- Coil width 700mm from 0.35 to 0.8mm

Check minimum manufacturing for these products

### APPLICATION AREAS

- Glazing.
- Signs.
- Machinery protection.
- Illumination.
- Bathroom applications.
- Vending and arcade machines.
- Displays and other advertising elements.
- Urban furniture.
- Building.
- Protection masks.
- Safety glasses

## TECHNICAL SPECIFICATIONS - PET

Properties	Value	Unit	Standard
<b>Physical properties</b>			
Density	1,34	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical properties</b>			
Tensile strength	59	MPa	ISO 527
Tensile strength at break	No break	MPa	ISO 527
Elongation at break	No break	%	ISO 527
Flexural strength	2420	MPa	ISO 527
Flexural strength	86	MPa	ISO 178
Impact strength. Charpy method with notch	*	kJ/m <sup>2</sup>	ISO 179
Impact strength. Charpy method	No break	kJ/m <sup>2</sup>	ISO 179
Rockwell hardness scale M/R	*/111		
Ball pressure hardness	117	MPa	ISO 2039
<b>Optical properties</b>			
Light transmission	89	%	ASTM D-1003
Refraction	1,576		ASTM D-542
<b>Thermal properties</b>			
Maximum continuous use temperature	60	°C	
VICAT softening temperature (10 N)	79	°C	ISO 306
VICAT softening temperature (10 N)	75	°C	ISO 306
Softening temperature HDT A (1.8 Mpa)	69	°C	
Softening temperature HDT B (0.45 Mpa)	73	°C	ISO 75-2
Linear expansion coefficient	<6	x10 <sup>5</sup> /°C	ISO 75-2

These data correspond to raw material values

\* Not applicable

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.