

TECHNICAL DATA

PETG

PETG is a colorless transparent copolyester sheet that combines excellent machining and thermoforming properties with good impact resistance. The product has good fire behavior, and also generates a low amount of smoke in case of combustion.

ADVANTAGES PETG

- Pre-drying is not necessary before thermoforming.
- Easy to achieve high definitions with sophisticated shapes in thermoforming.
- Fast time cycles in thermoforming.
- Good fire behavior.
- Does not splinter when breaking
- Can be cold bent
- Good resistance to chemical agents.

TYPES AND FORMATS

Standard size: 1250 x 2050 mm , 2050 x 3050 mm.

Thickness range: 1,5 – 10 mm.

Also available with:

- Optional UV protection.
- Matt surface (frost) optional.
- Approved for food contact.

APPLICATION AREAS

- Industrial equipment: machine covers, machine guards and many different types of technical parts.
- Medical equipment.
- Vending machine faces.
- Shelves, counters and furniture design.
- Containers.
- Thermoformed pieces.
- Indoor and outdoor signs, shelving and racking systems.

TECHNICAL SPECIFICATIONS - PETG

Properties	Value	Units	Standard
Physical properties			
Density	1,27	g/cm ³	ISO 1183
Refractive index (20 °C)	1,57		ISO 489
Moisture absorption 24 hours, 23 °C, 50% RH	0,2	%	ISO 62
Mechanical properties			
Tensile strength at break	55	MPa	ISO 527
Elongation at yield (at break)	40	%	ISO 527
Elastic modulus	2200	N/mm ²	ISO 527
Flexural modulus	2300	N/mm ²	ISO 178
Izod notched impact strength +23 °C	11,5	kJ/m ²	ISO 180/1A
Izod notched impact strength -30 °C	4,4	kJ/m ²	ISO 180/A
Rockwell hardness	R115	Escala-R	ISO 2039-2
Thermal properties			
Linear coefficient of thermal expansion (23-70 °C)	51x10 ⁻⁶	K ⁻¹	ISO 11359-2
Heat deflection temperature, HDT A (1,80 N/mm ²)	68	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm ²)	72	°C	ISO 75
Thermal conductivity	0,19	W / m.K	DIN 8302
Electrical properties			
Volume resistivity, dry	10 ¹⁶	Ω x cm	IEC60093
Surface resistivity, dry	10 ¹⁵	Ω	IEC60093
Dielectric strength, dry	30	kV / mm	IEC 60243
Dielectric constant, dry 1 MHz	2,4		IEC60250
Dissipation factor (tan δ), dry 1 MHz	0,02		IEC 60250
Fire properties			
Construction (EU)			Bs1d0/ Bs2d0

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.