TECHNICAL DATA SHEET - PETG

PETG is in the family of thermoplastic polyesters, chemically known as Glycol modified Tereftalate Polyethylene (PETG) for point-of-sale displays, food, boxes and partitions, showcases, shelving systems, etc.

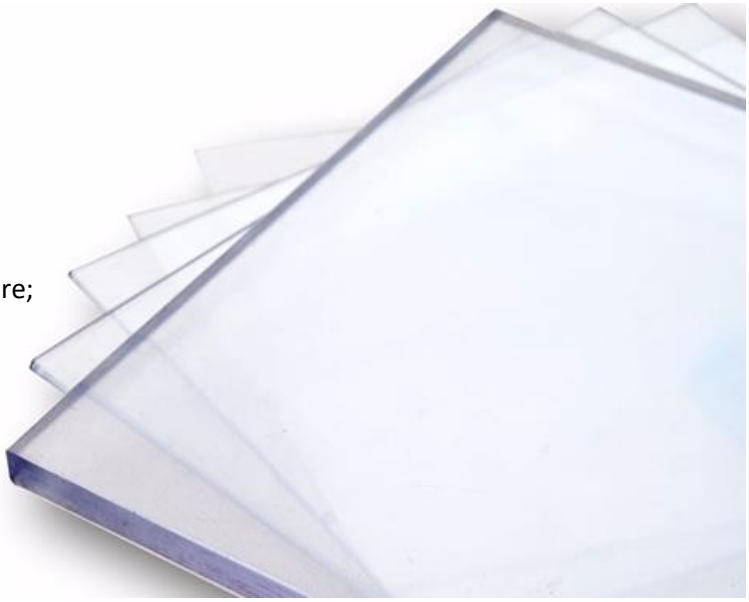
It can be screwed, hot stamped, cut, easily thermoformed, or even cold folded without chiding, whiting, cracking or getting uneven.

Features:

- Excellent transparency, 90% light transmission;
- High gloss and finish;
- High impact resistance;
- High chemical resistance;
- 15 to 20 times more resistant than acrylic;
- Nontoxic and approved for contact with food;
- High degree of fire retardation;
- Accepts cold bending, malleable;
- Great for thermoform;
- Recyclable;
- Extreme quality;
- It is not indicated for external application because it does not have UV protection.

Main applications:

- Displays;
- Helmet visor;
- Protection of machines;
- Mannequins;
- Sales stand;
- Furniture industry;
- Refrigeration equipment;
- Exhibitors;
- Ballot boxes;
- Domes of maquetes in architecture;
- Safety equipment industry.



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Properties	Method	Unit	Value
General Properties			
Density	ISO 1183	g/cm³	1.27
Light transmission	ASTM D 1003	%	90
Refractive index	ISO 489	-	1.57
Mechanical Properties			
Force module to be performed	ISO 527-2	Mpa	53
Traction module	ISO 527-2	Mpa	2200
Stretching to breakage	ISO 527-2	%	26
Resistance to freight	ISO 178	Mpa	79
Freight module	ISO 178	Mpa	2200
Durezo Rockwell	ASM D785	Escala -M	106
Impact resistance	ISO 180/1ª	KJ/m²	10
Thermal Properties			
Deformation temperature under load 1.8 Mpa	ISO 75-1	°C	68
Glazing temperature Vicat (50 N)	ISO 306	°C	82
Coefficient of thermal expansion	-	1/°C	6.5 E-05
Thermoforming temperature	-	°C	135-155
Mold temperature	-	°C	65-75

Dimensions: 1000x2000 e 1220x2440

Thicknesses: 0,50mm, 0,75mm, 1mm, 1,5mm, 2mm, 3mm, 4mm e 5mm.

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