



# PETG

Polyethylene Terephthalate glycol

## Description

PETG combines transparency, high impact resistance (much better than Acrylic), thermoformability without pre-drying (like Polycarbonate) & appealing cost-effectiveness. PETG is transparent like glass & can be easily fabricated.

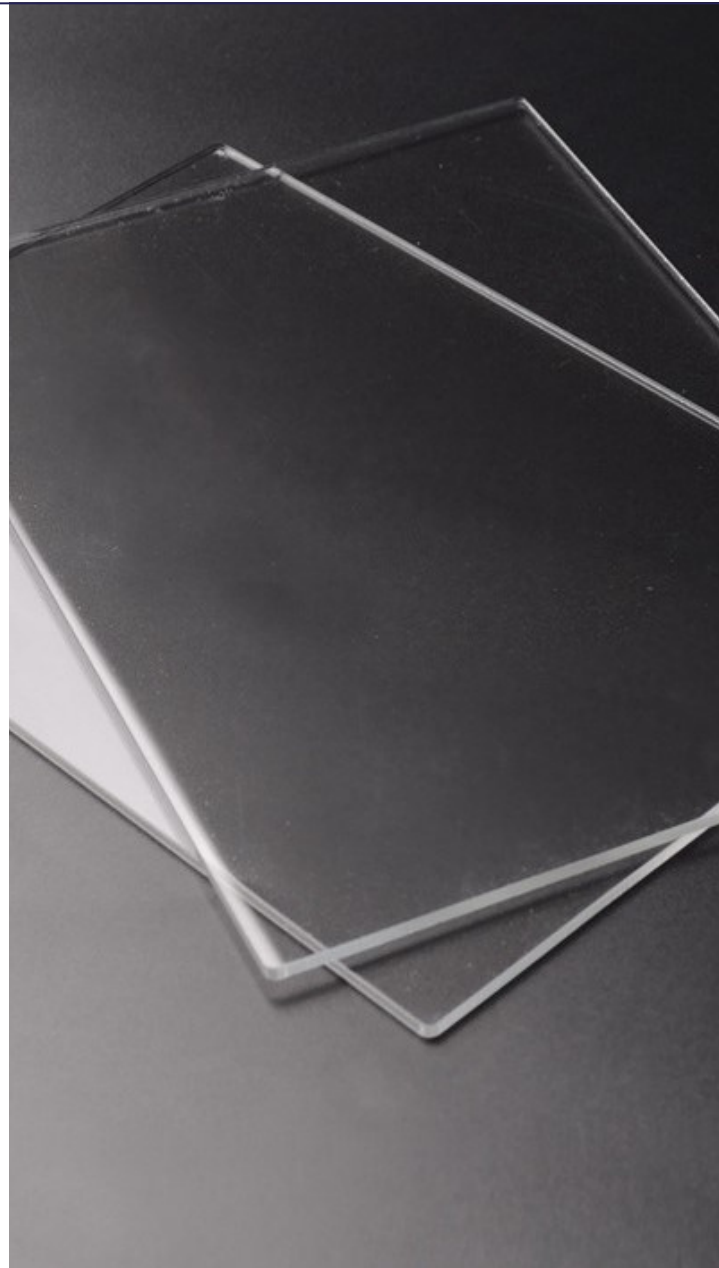
PETG has outstanding thermoforming characteristics for applications that require deep draws, complex die-cuts and precise molded in details, without sacrificing structural integrity. It is used often in the O&P market for fabricating face masks, burn management devices, and check sockets. PETG is FDA compliant.

## Uses

- Vacuum formed trays
- Models and Prototypes
- Fabricated parts or components
- Thermoformed parts
- Shelves

## Basic info

- ✓ Extremely thermoformable
- ✓ High impact Strength
- ✓ Good machinability
- ✓ Easy to Paint, Glue and print





## Technical Data

### Availability

Colour	Gauge mm	Sheet size mm
Clear	0.50	1220 x 2440
	0.75	
	1.00	
	1.50	
	2.00	
	3.00	
	4.50	
	6.00	



### Technical Properties

Physical	Test Method	Units	PETG
Specific Gravity/Relative Density	ASTM D-792		1.27
Optical Refractive Index	ASTM D-542		1.57
Light Transmission – Total	ASTM D-1003	%	86
Light Transmission – Haze	ASTM D -1003	%	1.0
Water Absorption	ASTM D-570	% By wt	0.2
Mechanical	Test Method	Units	PETG
Tensile Strength	ASTM D - 638	psi	7,700
Tensile Modulus of Elasticity	ASTM D - 638	%	320,000
Flexural Strength	ASTM D - 790	psi	11,200
Flexural Modulus of Elasticity	ASTM D - 790	psi	310,000
Dielectric Constant @1kHz	ASTM D - 150		2.6
Dielectric Constant @ 1mHz	ASTM D - 150		2.4
Dielectric Strength	ASTM D - 149	Volts/mil	410
Compressive Strength	ASTM D - 695	psi	8,000
Shear Strength	ASTM D - 732	psi	9,000
Izod Impact Strength notched @ 73° F	ASTM D - 256	Ft-lb/in Notch	1.7
Izod Impact Strength @ 32° F	ASTM D - 256	Ft-lb/in Notch	1.2
Drop Dart Impact	ASTM D - 3763	Ft-lbs	22
Rockwell Hardness	ASTM D - 785		R- 115

#### Contact

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