

PETG

Transparent plastic sheet with good impact resistance and outstanding thermoforming characteristics



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.

PETG Material Options

Thermoforming – PETG does not require drying prior to forming and has rapid thermoforming cycle times. It is brake formable up to 0.080" thickness.

Impact Resistance – PETG is less brittle than acrylic, and is a lower cost alternative to polycarbonate.

Chemical Resistance – PETG offers superior chemical resistance when compared with many other transparent plastics.

PETG Sheet for O&P – is used where transparency is important for evaluation interfaces.

PETG is widely used for:

- Signs
- Sign and graphic holders
- POP displays and store fixtures
- Product and table top displays
- Thermoformed trays
- Prototypes and models
- Orthotic and prosthetic devices
- Machine guards and housings

Performance characteristics:

- Outstanding deep draw thermoforming
- Good impact resistance
- Chemical resistant
- Easy to fabricate and machine
- Good clarity

Common brands:

- Spectar®
- VIVAK®

Available in:



Sheet

TYPICAL PROPERTIES OF PETG

	UNITS	ASTM TEST	PETG
Tensile strength	psi	D638	7,700
Flexural modulus	psi	D790	310,000
Izod impact (notched)	ft-lbs/in of notch	D256	1.7
Heat deflection temperature @ 264 psi	°F	D648	157
Maximum continuous service temperature in air	°F		-
Water absorption (immersion 24 hours)	%	D570	0.20
Coefficient of linear thermal expansion	in/in/°F x 10 ⁻⁵	D696	3.8

Values may vary according to brand name. Please ask your Curbell Plastics representative for more specific information about an individual brand.