

PLASTIC-CRAFT PETG

Polyethylene Terephthalate Glycol-Modified

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A clear, tough, easily thermoformed copolyester that combines the optical clarity of acrylic with impact resistance approaching polycarbonate — at a fraction of the cost. FDA-compliant, easy to fabricate, and resistant to breakage during machining.

STOCK AVAILABILITY

Plastic-Craft maintains extensive inventory across a wide range of standard and specialty sizes in sheets, rods, tubes, and custom profiles. Most orders ship from stock — contact us for immediate availability.

KEY HIGHLIGHTS

- 86% light transmission
- High impact resistance
- Excellent thermoformability
- FDA compliant
- No stress whitening on bend
- Easy to die-cut & fabricate

✓ Best value clear plastic for food contact & displays

COMMON APPLICATIONS

- Point-of-purchase displays
- Food packaging & trays
- Machine guards & shields
- Face shields & visors
- Thermoformed enclosures
- Medical packaging
- Signage & graphics

GRADES AVAILABLE

- Clear (optical grade)
- Colors & tints
- FDA-compliant
- Anti-fog
- ESD / anti-static
- Textured surface

MATERIAL PROPERTIES — TYPICAL VALUES

PROPERTY	ASTM	TYPICAL VALUE	UNITS
PHYSICAL / OPTICAL			
Specific Gravity	D792	1.27	—
Water Absorption, 24h	D570	0.20	%
Light Transmission	D1003	86	%
Haze	D1003	< 1	%
MECHANICAL			
Tensile Strength, Ultimate	D638	7,700	psi (53 MPa)
Tensile Modulus	D638	310,000	psi (2,140 MPa)
Elongation at Break	D638	120	%
Flexural Strength	D790	11,500	psi (79 MPa)
Flexural Modulus	D790	310,000	psi (2,140 MPa)
Impact, Izod Notched	D256	2.0	ft-lb/in (107 J/m)
Hardness, Rockwell	D785	R115	—
THERMAL			
Heat Deflection @ 264 psi	D648	150	°F (66°C)
Heat Deflection @ 66 psi	D648	170	°F (77°C)
Max Continuous Service	—	150	°F (66°C)
CTE (Linear)	D696	3.8 × 10 ⁻⁵	in/in/°F
Thermal Conductivity	C177	1.4	BTU-in/hr-ft²-°F
ELECTRICAL			
Volume Resistivity	D257	> 10 ¹⁶	ohm-cm
Dielectric Strength	D149	430	V/mil (17 kV/mm)
Dielectric Constant, 1MHz	D150	3.0	—
FLAMMABILITY			
UL Flammability Rating	UL 94	HB	—
DURABILITY			
Abrasion Resistance (Taber)	D1044	12	mg/1000 cycles
Weathering / UV	G154	Fair	May yellow outdoors

PROCESSING / FABRICATION NOTES: Excellent thermoformability at low temps (275–325°F) | Die-cuts cleanly without cracking | Bondable with solvent cements & adhesives | No pre-drying needed for thermoforming | Prints well with screen & digital methods

CHEMICAL RESISTANCE: Good — resistant to dilute acids, alcohols, aliphatic hydrocarbons, and most cleaners. **AVOID:** ketones (MEK, acetone), esters, chlorinated solvents, and strong bases at elevated temperatures.

Typical values; not to be used as specifications. Actual values may vary by grade, manufacturer, and processing conditions. Contact Plastic-Craft for grade-specific data.