Polyester (Mylar / PET)

Polyester Film

Polyester film delivers dimensional stability, chemical resistance, and electrical insulation in thin gauges where rigid sheet won't fit. K&R stocks print-grade Mylar for graphic overlays, durable labels, and industrial applications.

Applications

- Durable labels and decorative laminates
- Poster displays and overhead transparencies
- Folding-carton windows
- Graphic overlays and membrane-switch face film
- Electrical insulation and dielectric film
- Stencils and drafting film
- Hot-stamping foil carrier

Features & Benefits

Highest clarity available across film substrates.

Superior chemical and heat resistance — service range -100°F to 300°F.

Pre-treatment available for solvent-based inks and coatings.

Double-sided high-adhesion surface for laminating applications.

Excellent dimensional stability — minimal shrinkage at temperature.

Tensile strength and tear resistance unmatched in thin-gauge films.

Print & Process Compatibility
Toner ✓ (treated) · HP Indigo ✓ (treated) · UV Inkjet ✓ (treated) · Solvent Inkjet ✓ · Screen ✓ · Offset ✓ (treated) · Litho ✓ (treated)

AVAILABLE SURFACES, FINISHES & GAUGES

Surface / Finish	Description	Stock Gauges
Gloss / Gloss	Near-perfect visibility with high scratch resistance.	.001, .002
Treated Polyester	Surface-treated for ink and coating adhesion.	Specify on order
Heavy-Gauge Polyester	Available in gauges to 14 mil for industrial and graphic-overlay use.	Custom

TYPICAL PROPERTIES

Property	Typical Value	Test Method
Physical		
Specific Gravity	1.40	ASTM D 792
Average Thickness Range	50 – 1,000 gauge (0.5 – 10 mil)	ASTM D 374
Yield (200–500 ga)	9,900 – 4,000 in^2/lb	—
Yield (700–1000 ga)	2,800 – 2,000 in^2/lb	—
Mechanical		
Tensile Strength at Break (200–500 ga)	MD 25,000 psi · TD 28,000 psi	ASTM D 882
Tensile Strength at Break (700–1000 ga)	MD 24,000 psi · TD 28,000 psi	ASTM D 882

Property	Typical Value	Test Method
Elongation at Break	MD 90 % · TD 80 %	ASTM D 882
Coefficient of Friction	Static 0.55 · Dynamic 0.50	ASTM D 1003
Optical		
Haze (50–250 micron)	0.7 – 2.5 %	ASTM D 1003
Thermal		
Shrinkage at 150°C / 30 min	MD 2.5 % · TD 1.5 %	ASTM D 1204
Service Temperature Range	-100°F to 300°F	—

Properties reported here are typical of average lots. K&R Plastics, Inc. and its manufacturers make no representation or warranty that the material in any particular shipment will conform exactly to the values given. Unless otherwise noted, all tests run at 23°C (73°F) and 50% relative humidity. Job-specific qualification recommended for production runs — request a sample.