

TECHNICAL DATA SHEET

Mylar® (Polyester Film)

Mylar® exhibits superior strength, heat resistance, and excellent insulating properties. The unique qualities of Mylar® are found in many consumer, high tech, and electronic markets. Mylar® Polyester Film is ideally suited for a wide range of uses such as packaging, printing, die-cutting, electronics, protective overlay, barrier protection, apparel and other industrial applications.

TYPICAL PROPERTIES of MYLAR®

Properties	Typical Value	Units	Test Method
Tensile Strength (MD)	28,000	psi	ASTM-D882
Tensile Strength (TD)	34,000	psi	ASTM-D882
Strength Elongation MD	15,000	psi	ASTM-D882
Strength F-5 TD	14,000	psi	ASTM-D882
Modulus MD	710,000	psi	ASTM-D882
Modulus TD	740,000	psi	ASTM-D882
Elongation MD	115	%	ASTM-D882
Elongation TD	92	%	ASTM-D882
Surface Roughness	38	nm	Optical Profilometer
Density	1.39	g/cc	ASTM-D1505
Viscosity	0.56	dL/g	ASTM-D4603
Yield	21,000	in ² /lb	n/a

Benefits

- Superior strength
- Heat resistance
- Insulating properties
- Good coefficient of friction (COF)
- Tear-resistant and puncture-resistant characteristics
- Excellent dimensional stability over a wide range of temperatures
- Very good resistance to most common solvents, moisture, oil, and grease
- Excellent barrier against a wide range of gases

Electrical Properties

Properties	Typical Value	Units	Test Method
Dielectric Strength AC, 20° C, .00092"	7,000	volts/mil	ASTM-D149-64
Dielectric Constant 25° C, 1kHz	3.2	n/a	ASTM-D150-81
Dissipation Factor 25° C, 1kHz	0.005	n/a	ASTM-D150-65
Volume Resistivity 25° C	1.00E+19	ohm-cm	ASTM-D257-78
Corona Threshold	V-AC	V-AC	ASTM-D2275-80

Applications

- Packaging
- Medical
- Membrane switches
- Enhancement of LCD/Plasma/Computer Displays
- Coating for cards and discs
- Printing (when properly coated)
- Labels
- Magnetic recording media

Thermal Properties

Properties	Typical Value	Units	Test Method
Melting Point	254	° C	n/a
Dimensional Stability	n/a	n/a	n/a
at 105° C MD	0.6	%	n/a
at 105° C TD	0.3	%	n/a
at 150° C MD	1.8	%	n/a
at 150° C TD	1.0	%	n/a
Specific Heat	0.28	cal/g/° C	n/a
Thermal Expansion	1.7 x 10 ⁻⁵	in/in/° C	ASTM-D696
UL94 Flame Class	94VTM-2	n/a	Slow to self extinguishing

SHAPE AVAILABLE



Contact us for manufacturers' complete material property datasheets Mylar® is a registered trademark of Dupont

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets.
All values at 73°F (23°C) unless otherwise noted.