

MATERIAL SPECIFICATION

Polyester Film

General Description

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. It can be die-cut to meet any custom requirement. Because of polyester film's inherent physical properties, it's your best choice for a high performance plastic film or sheet.

This material is UL94 Flame Class – 94VTM-2 – slow to self extinguishing

PROPERTIES	UNITS	VALUE	TEST METHOD
Density	Grams/cc	1.39	D-1505
Tensile Strength (MD)	psi	28,000	D-882
Tensile Strength (TD)	psi	34,000	D-882
Modulus MD	psi	710,000	D-882
Modulus TD	psi	740,000	D-882
Strength Elongation (MD)	psi	15,000	D-882
Strength F-5 (TD)	psi	14,000	D-882
Elongation (MD)	%	115	D-882
Elongation (TD)	%	92	D-882
Surface Roughness	Nm	38	Optical Profilometer
Viscosity	dL/g	0.56	D-4603
Yield	ln2/lb	21,000	n/a
Dielectric Strength AC, 20°C .00092	Volts/mil	7,000	D-149-64
Dielectric Constant 25° C, 1kHz	n/a	3.2	D-150-81
Dissipation Factor 25° C, 1kHz	n/a	0.005	D-150-65
Volume Resistivity 25° C	Ohm-cm	1.00E + 19	D-257-78
Corona Threshold	V-AC	V-AC	D-2275-80
Heat Resistance	Degrees C	230	