Description: Mylar is an oriented polyester film which is available in a variety of finishes and gauges. It 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. Because of its inherent physical properties, Mylar is your best choice for a high performance plastic film or sheet.

Features:

Archival Quality	Dimensional Stability	Lay-Flat	Chemical Resistance
Consistent Color	Clarity	Non-Yellowing	Non-Tearing
Heat Resistance to 230 C	Electrical Resistance		

Typical Properties of Mylar

Properties based on 92 Gauge General Use Film. Properties of other gauges and finishes of Mylar can vary.

Property	*Typical Value*	*Units Test*	*Method*
Tensile Strength (MD)	28,000	psi	ASTM D 882
Tensile Strength (TD)	34,000	psi	ASTM D 882
Strength Elongation MD	15,000	psi	ASTM D 882
Strength F-5 TD	14,000	psi	ASTM D 882
Modulus MD	710,000	psi	ASTM D 882
Modulus TD	740,000	psi	ASTM D 882
Elongation MD	115	%	ASTM D 882
Elongation TD	92	%	ASTM D 882
Surface Roughness	38	nm	Optical Profilometer
Density	1.39	g/cc	ASTM D 1505
Viscosity	0.56	dL/g	ASTM D 4603
Yield	21,000	in^2/lb	

Electrical Properties

Property	*Typical Value*	*Units Test*	*Method*
Dielectric Strength			
AC, 20°C, .00092"	7,000	volts/mil	ASTM D 149-64
Dielectric Constant			
20°C, 1 kHz	3.2		ASTM D150-81
Dissipation Factor			
20°C, 1 kHz	0.005		ASTM D150-65
Volume Resistivity 25° C	1.00E+19	ohm-cm	ASTM D257-78
Corona Threshold	425	V-AC	ASTM D2275-80

Thermal Properties

Property	*Typical Value*	*Units Test*	*Method*
Melt Point	254	°C	
Dimensional Stability			
at 105° MD	0.6	%	
at 105° TD	0.3	%	
at 150° MD	1.8	%	
at 150° TD	1.0	%	
Specific Heat	0.28	cal/g/°C	
Thermal Expansion	1.7×10^{-5}	in./in./°C ASTM D 696	
UL94 Flame Class	94VTM-2	Slow to Self Extinguishing	