

DuPont Teijin Films Melinex® ST506 Polyester Film, 500 Gauge

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polyester Film

Material Notes:

Melinex® ST506 is a crystal clear, high gloss, heat stabilized polyester film. It is pretreated on both sides for improved adhesion. It can be overprinted with a wide range of solvent-based graphic inks and varnishes, silver conductive and dielectric inks. It is ideally suited for graphic and certain circuitry layers in membrane touch switches. This is a knurled version of Melinex® ST505. Our process of continual improvement in quality and specification now enables us to provide the following properties and benefits: Heat stabilized to give excellent dimensional stability at temperatures up to 302°F. Excellent adhesion to a wide range of solvent based inks, graphics inks and varnishes, silver conductive inks and dielectrics. Excellent durability and toughness giving long lasting switches, particularly when compared with polycarbonate. Greatly superior solvent resistance to polycarbonate, making Melinex® ST506 particularly suitable for use in many industrial applications. Approvals: UL 94 VTM-2 - for 300 - 700 gauge (0.073 - 0.18mm) Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-ST506-Polyester-Film-500-Gauge.php

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 50.0 $^{\circ}\text{C}$	@Temperature 68.0 - 122 $^{\circ}\text{F}$	
Melting Point	256 $^{\circ}\text{C}$	493 $^{\circ}\text{F}$	
Shrinkage, MD	0.15 %	0.15 %	Unrestrained
	@Temperature 150 $^{\circ}\text{C}$, Time 1800 sec	@Temperature 302 $^{\circ}\text{F}$, Time 0.500 hour	
Shrinkage, TD	0.15 %	0.15 %	Unrestrained
	@Temperature 150 $^{\circ}\text{C}$, Time 1800 sec	@Temperature 302 $^{\circ}\text{F}$, Time 0.500 hour	

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Gloss	150 %	150 %	60°; ASTM D1003
Transmission, Visible	55 %	55 %	TLT; ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+13 ohm	1.00e+13 ohm	ASTM D257
Dielectric Constant	2.9	2.9	ASTM D150

Dielectric Strength Electrical Properties	118 kV/mm Metric	3000 kV/in English	ASTM D149 Comments
Descriptive Properties	Value		Comments
Coefficient of Hygroscopic Expansion	0.000006 IN/IN/% RH		40% - 80% RH
Flexural Strength	>15000 cycles		ASTM D2176

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