

DuPont Teijin Films Melinex® ST505 Polyester Film, 700 Gauge

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

Material Notes:

Melinex® ST505 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. 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® ST505 particularly suitable for use in many industrial applications. Melinex® ST505 is an unknurled film which is available in knurled form as Melinex® ST506. Both are available for membrane touch switches 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-ST505-Polyester-Film-700-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	1.2 %	1.2 %	ASTM D1003
Gloss	150 %	150 %	60°; ASTM D1003
Transmission, Visible	87 %	87 %	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

Electrical Properties	Metric	English	Comments
Dielectric Strength	110 kV/mm	5000 kV/in	ASTM D149

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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