

DuPont Teijin Films Melinex® ST504 Polyester Film, 700 Gauge

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

Material Notes:

Melinex® ST504 is a crystal clear, high gloss, heat stabilized polyester film. 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. Melinex® ST504 is pretreated on one side to promote adhesion. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-ST504-Polyester-Film-700-Gauge.php

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Static	<= 0.60	<= 0.60	ASTM D1894

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

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Gloss	140 %	140 %	60°; ASTM D1003
Transmission, Visible	85 %	85 %	TLT; ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 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	118 kV/mm	3000 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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