

## DuPont Teijin Films Melinex® ST507 Polyester Film

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

### Material Notes:

Melinex® ST507 is a slightly hazy, heat stabilized, polyester film. It has good handling characteristics and is recommended for silver circuitry applications, particularly where an adhesion topcoat is not required. Approvals: UL 94 VTM-2 - for 300 - 500 gauge (0.073 - 0.13mm) Information provided by DuPont.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Teijin-Films-Melinex-ST507-Polyester-Film.php](http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-ST507-Polyester-Film.php)

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Static	<= 0.50	<= 0.50	ASTM D1894

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Melting Point	265 $^\circ\text{C}$	509 $^\circ\text{F}$	
Shrinkage, MD	0.10 % @Temperature 150 $^\circ\text{C}$ , Time 1800 sec	0.10 % @Temperature 302 $^\circ\text{F}$ , Time 0.500 hour	Unrestrained
Shrinkage, TD	0.10 % @Temperature 150 $^\circ\text{C}$ , Time 1800 sec	0.10 % @Temperature 302 $^\circ\text{F}$ , Time 0.500 hour	Unrestrained

Optical Properties	Metric	English	Comments
Transmission, Visible	80 % @Thickness 0.178 mm	80 % @Thickness 0.00700 in	TLT; ASTM D1003
	81 % @Thickness 0.127 mm	81 % @Thickness 0.00500 in	TLT; ASTM D1003
	83 % @Thickness 0.102 mm	83 % @Thickness 0.00400 in	TLT; ASTM D1003
	84.5 % @Thickness 0.0762 mm	84.5 % @Thickness 0.00300 in	TLT; ASTM D1003
	85.5 % @Thickness 0.0508 mm	85.5 % @Thickness 0.00200 in	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	98.4 kV/mm	2500 kV/in	ASTM D149
	@Thickness 0.178 mm	@Thickness 0.00700 in	
	126 kV/mm	3200 kV/in	ASTM D149
	@Thickness 0.127 mm	@Thickness 0.00500 in	
	138 kV/mm	3500 kV/in	ASTM D149
@Thickness 0.102 mm	@Thickness 0.00400 in		
Dielectric Breakdown	157 kV/mm	4000 kV/in	ASTM D149
	@Thickness 0.0762 mm	@Thickness 0.00300 in	
	197 kV/mm	5000 kV/in	ASTM D149
	@Thickness 0.0508 mm	@Thickness 0.00200 in	
	10000 V	10000 V	ASTM D149
@Thickness 0.0508 mm	@Thickness 0.00200 in		
	12000 V	12000 V	ASTM D149
	@Thickness 0.0762 mm	@Thickness 0.00300 in	
	14000 V	14000 V	ASTM D149
	@Thickness 0.102 mm	@Thickness 0.00400 in	
	16000 V	16000 V	ASTM D149
	@Thickness 0.127 mm	@Thickness 0.00500 in	
	17500 V	17500 V	ASTM D149
	@Thickness 0.178 mm	@Thickness 0.00700 in	

Descriptive Properties	Value	Comments
Coefficient of Hygroscopic Expansion	0.000008 IN/IN/% RH	40% - 80% RH
Flexural Strength	>20000 cycles	ASTM D2176

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