



DuPont Teijin Films™

MELINEX® ST507

Product Description

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 Recognition - Product has been registered with Underwriters Laboratories.

Typical Properties

Available Thickness [Gauge]
200; 300; 500

Property	Thickness	Value	Units	Test
ELECTRICAL				
Dielectric Constant	ALL	2.9		ASTM D150
Dielectric Strength	200	10.0	kv	ASTM D149
Dielectric Strength	300	12	kv	ASTM D149
Dielectric Strength	500	16	kv	ASTM D149
Surface Resistivity	ALL	10 ¹³	Ohms/sq	ASTM D257
Volume Resistivity	ALL	10 ¹⁷	Ohms-cm	ASTM D257
OPTICAL				
Total Light Transmission (TLT)	200	85.5	%	ASTM D1003
Total Light Transmission (TLT)	300	84.5	%	ASTM D1003
Total Light Transmission (TLT)	500	81.0	%	ASTM D1003
PHYSICAL				
C.O.F. (static)	ALL	<0.5		ASTM D1894
Flexural Strength	ALL	>20,000	cycles	ASTM D2176
THERMAL				
Coefficient of Hygroscopic Expansion	ALL	8X10 ⁻⁶	per % RH	40% - 80% RH
Coefficient of Thermal Expansion	ALL	10X10 ⁻⁶	in/in/°F	
Melting Point	ALL	509	°F	
Shrinkage MD (150°C)	ALL	0.10	%	Unrestrained @ 150°C/30 min
Shrinkage TD (150°C)	ALL	0.10	%	Unrestrained @ 150°C/30 min

Contact Info

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Disclaimer

Note: These values are typical performance data for DuPont Teijin Films' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

CAUTION: Do not use in medical applications involving permanent implantation in the human body ([DuPont Teijin](#)

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