



# DuPont Teijin Films™

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[Film Type Selector](#)
[Market Locator](#)
[Product Locator](#)

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## MELINEX® ST504

### Product Description

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.

### Typical Properties

Available Thickness [Gauge]
500; 700

Property	Thickness	Value	Units	Test
<b>ELECTRICAL</b>				
Dielectric Constant		2.9		ASTM D150
Dielectric Strength		3,000	volts/mil	ASTM D149
Surface Resistivity		10 <sup>13</sup>	Ohms/sq	ASTM D257
Volume Resistivity		10 <sup>17</sup>	Ohms-cm	ASTM D257
<b>OPTICAL</b>				
Gloss 60 Degrees	500	140		ASTM D1003
Gloss 60 Degrees	700	140		ASTM D1003
Haze	500	0.8	%	ASTM D1003
Haze	700	1.0	%	ASTM D1003
Total Light Transmission (TLT)	500	>85	%	ASTM D1003
Total Light Transmission (TLT)	700	>85	%	ASTM D1003
<b>PHYSICAL</b>				
C.O.F. (static)		<0.6		ASTM D1894
Flexural Strength	500	>20,000	cycles	ASTM D2176
Flexural Strength	700	>15,000	cycles	ASTM D2176
<b>THERMAL</b>				
Coefficient of Hygroscopic Expansion		6X10 <sup>-6</sup>	IN/IN/% RH	40% - 80% RH
Coefficient of Thermal Expansion		10X10 <sup>-6</sup>	in/in/°F	(68 - 122 °F)
Melting Point		265	°C	
Shrinkage MD (150°C)	500 - 700	0.04	%	Unrestrained @ 150°C/30 min
Shrinkage TD (150°C)	500 - 700	0.00	%	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

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