



# DuPont Teijin Films™

## 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	0.15	%	Unrestrained @ 150°C/30 min
Shrinkage TD (150°C)	500 - 700	0.15	%	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

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