



# DuPont Teijin Films™

## MELINEX® LSS

### Product Description

Melinex® LSS is a special grade of film which combines excellent handling characteristics with a slightly hazy appearance. It is available in specific thicknesses from 92 - 200 gauge, and is used for flexible circuit applications.

### Approvals

**UL Recognition** - Product has been registered with Underwriters Laboratories.

### Typical Properties

Available Thickness [Gauge]
92; 142; 200

Property	Thickness	Value	Units	Test
<b>ELECTRICAL</b>				
Breakdown Voltage	92	6.4	kV	ASTM D149-81 0.25 inch electrodes in dry air @25°C
Breakdown Voltage	142	8.3	kV	ASTM D149-81 0.25 inch electrodes in dry air @25°C
Breakdown Voltage	200	10	kV	ASTM D149-81 0.25 inch electrodes in dry air @25°C
Surface Resistivity	All	10 <sup>15</sup>	Ohms/sq	ASTM D257 500 V DC @ 25°C 50% RH
Volume Resistivity	All	10 <sup>17</sup>	Ohm - cm	ASTM D257 100 V DC @ 25°C , and 100 sec
<b>OPTICAL</b>				
Haze	92	5.6	%	ASTM D1003
Haze	142	7.5	%	ASTM D1003
Haze	200	9.0	%	ASTM D1003
Total Light Transmission (TLT)	92	87.0	%	ASTM D1003
Total Light Transmission (TLT)	142	86.5	%	ASTM D1003
Total Light Transmission (TLT)	200	85.5	%	ASTM D1003
<b>PHYSICAL</b>				
C.O.F. (dynamic) A-B	All	0.4		ASTM D1894
Density	All	1.40	g/cc	
Elongation at Break MD	All	160	%	ASTM D882A
Elongation at Break TD	All	100	%	ASTM D882A
Tensile Strength MD	All	29,000	psi	ASTM D882A
Tensile Strength TD	All	37,000	psi	ASTM D882A
Yield (nominal)	92	21,800	in <sup>2</sup> /lb	
Yield (nominal)	142	14,000	in <sup>2</sup> /lb	
Yield (nominal)	200	9,900	in <sup>2</sup> /lb	
<b>THERMAL</b>				
Shrinkage MD (190°C)	92	2.6	%	Unrestrained @ 190°C/5 min
Shrinkage MD (190°C)	142	2.0	%	Unrestrained @ 190°C/5 min
Shrinkage MD (190°C)	200	1.7	%	Unrestrained @ 190°C/5 min
Shrinkage TD (190°C)	92	2.6	%	Unrestrained @ 190°C/5 min
Shrinkage TD (190°C)	142	0.06	%	Unrestrained @ 190°C/5 min
Shrinkage TD (190°C)	200	0.25	%	Unrestrained @ 190°C/5 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.

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