

MELINEX® S

Melinex® S is a general purpose film which combines excellent handling characteristics with a slightly hazy appearance. It is available in specific thicknesses from 48 - 500 gauge, and is used for the full range of Melinex® applications.

APPROVALS:

UL 94 VTM-2 - for 92 - 500 gauge (0.023 - 0.13mm)

UL Recognition - Product has been registered with Underwriters Laboratories

Typical Properties Available Thickness [Gauge]

48; 75; 92; 142; 200; 300; 500

Property	Thickness	Value	Units	Test
ELECTRICAL				
Breakdown Voltage	48	4.8	kV	ASTM D149-81 0.25 inch electrodes in dry air @25°C
Breakdown Voltage	75	6.1	kV	ASTM D149-81 0.25 inch electrodes in dry air @25°C
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
Breakdown Voltage	300	12	kV	ASTM D149-81 0.25 inch electrodes in dry air @25°C
Breakdown Voltage	500	16	kV	ASTM D149-81 0.25 inch electrodes in dry air@25°C
Surface Resistivity	All	10 ¹⁵	Ohms/sq	ASTM D257 500 V DC @ 25°C 50% RH
Volume Resistivity	All	10 ¹⁷	Ohm - cm	ASTM D257 100 V DC @ 25°C , and 100 sec
OPTICAL				
Haze	48	3.1	%	ASTM D1003
Haze	75	5.3	%	ASTM D1003
Haze	92	5.6	%	ASTM D1003
Haze	142	7.5	%	ASTM D1003
Haze	200	9.0	%	ASTM D1003
Haze	300	13.8	%	ASTM D1003
Haze	500	20.7	%	ASTM D1003
TLT	48	88.5	%	ASTM D1003
TLT	75	88.0	%	ASTM D1003
TLT	92	87.0	%	ASTM D1003
TLT	142	86.5	%	ASTM D1003
TLT	200	85.5	%	ASTM D1003
TLT	300	84.5	%	ASTM D1003
TLT	500	81.0	%	ASTM D1003
PHYSICAL				
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)	48	42,200	in ² /lb	
Yield (nominal)	75	26,500	in ² /lb	
Yield (nominal)	92	21,800	in ² /lb	
Yield (nominal)	142	14,000	in ² /lb	
Yield (nominal)	200	9,900	in ² /lb	
Yield (nominal)	300	6,600	in ² /lb	
Yield (nominal)	500	4,000	in ² /lb	
Yield Strength MD	All	14,500	psi	ASTM D882A
Yield Strength TD	All	14,400	psi	ASTM D882A
THERMAL				
Shrinkage MD (190°C)	48 - 92	3.5	%	Unrestrained @ 190°C/5 min
Shrinkage MD (190°C)	142 - 500	2.5	%	Unrestrained @ 190°C/5 min
Shrinkage TD (190°C)	48 - 92	3.5	%	Unrestrained @ 190°C/5 min
Shrinkage TD (190°C)	142 - 500	0.5	%	Unrestrained @ 190°C/5 min

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