



Melinex®

polyester film

MXTD120 Issue 4

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 12 to 125 micron and is used for the full range of Melinex® applications

TYPICAL VALUES OF PROPERTIES

Property	Test Methods	Unit	Value							
			Thickness μm							
			12	19	23	36	50	75	100	125
General										
Area Yield	--	m^2/kg	59	37	31	20	14	9.5	2.6	5.7
Relative Density (at 23°C)	ASTM D 1505-79 (modified to Melinex® test method)	--	1.40							
Thermal										
Melting point		°C	~248							
Coefficient of thermal expansion (between 20 and 50°C)		1/K (cm/cm degC)	35 x 10 ⁻⁶ (MD) 28 x 10 ⁻⁶ (TD)							
Shrinkage (after 5 minutes at 190°C)		%	3 (MD) 1 (TD)							
Mechanical										
Tensile strength at break	ASTM D 882-83 (23°C at 50% rh Strain rate 50% /min)	All thicknesses kgf/mm^2	MD*		TD**					
Elongation at break	As above	%	125		80					
Slip (coefficient of static friction)	ASTM D 1894-78 (modified to Melinex® test method)		<0.50							



For more information and to order, please contact:

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Optical

			Thickness mm							
			12	19	23	36	50	75	100	125
Haze	ASTM D 1003-77 (Measured on Gardner Hazemeter)	%	3	4	6	9	13	14	20	26
Total luminous transmission (TLT)	As above	%	87.9	87.8	87.7	87.1	87.0	86.3	85.7	85.2

Electrical

Breakdown voltage	ASTM D 149-81 (0.25 inch electrodes in dry air at 25°C)	kV	4.8	6.1	6.4	8.3	10	12	14	16
Surface resistivity	ASTM D 257-83 (500 V dc at 20°C and 54% RH)	ohm/€					10 ¹³			
Volume resistivity	ASTM D 257-83 (100 V dc at 25°C and 1000s)	ohm m					10 ¹⁵			
Permittivity			All thicknesses							
23°C, 50Hz	ASTM D 150-81	--								3.26
23°C, 1kHz		--								3.24
23°C, 10kHz		--								3.21
0°C, 50Hz		--								3.26
50°C, 50Hz		--								3.27
100°C, 50Hz		--								3.35
150°C, 50Hz		--								3.65
Dissipation factor										
23°C, 50Hz	ASTM D 150-81	--								0.002
23°C, 1kHz		--								0.0055
23°C, 10kHz		--								0.011
0°C, 50Hz		--								0.004
50°C, 50Hz		--								0.0015
100°C, 50Hz		--								0.007
150°C, 50Hz		--								0.006

1µm = 1 micron = 0.001 mm approx. 1 gauge

*MD = Machine Direction

**TD = Transverse Direction

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Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Teijin Films Medical Caution Statement", H-50102-DTF.

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