



Melinex<sup>®</sup>  
polyester film

Melinex<sup>®</sup> S

**Product Description:**

Melinex<sup>®</sup> 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 36 micron and is used for the full range of Melinex<sup>®</sup> applications

**Food Contact Advice**

Melinex<sup>®</sup> S has not been assessed against Food Contact Legislation.

**Disposal Advice**

Disposal of Melinex<sup>®</sup> does not present special disposal problems. Where waste occurs in a clean, uncontaminated form it can be recycled. In most circumstances, once Melinex<sup>®</sup> has been laminated, coated, printed or metallised, incineration with Energy Recovery is the most environmentally efficient recovery route. Melinex<sup>®</sup> can also be burned in an incinerator with normal refuse or can be buried as a relatively inert material in a landfill. The disposal method should comply with appropriate local and country regulations.

**TYPICAL PROPERTIES OF FILM**

Property	Test Method	Unit	Value			
<b>General</b>						
Thickness	DTF Method	micron	12	19	23	36
Area Yield	DTF Method	m <sup>2</sup> /kg	59	37	31	20
Relative Density (23°C)	Based on ASTM D1505-79		1.4			
<b>Mechanical</b>			MD	TD		
Tensile strength at break	Based on ASTM D882-83	kgf/mm <sup>2</sup>	20	26		
Elongation at break	Based on ASTM D882-83	%	125	80		
Slip (coefficient of static friction)	Based on ASTM D1894-78		<0.50			
<b>Optical</b>						
Haze	Based on ASTM D1003-77	%	3.0	4.0	6	9
Total Luminous Transmission (TLT)	Based on ASTM D1003-77	%	87.9	87.8	87.7	87.1
<b>Thermal</b>			MD	TD		
Shrinkage (5 mins at 190°C)	Based on ASTM D1204-78	%	3	1		
Melting Point		°C	~248			
Coefficient of thermal expansion	Based on ASTM E381-06. Between 20 - 50 C	cm/cm deg C	35 x 10 <sup>-6</sup>		28 x 10 <sup>-6</sup>	

<b>Electrical</b>				
Breakdown Voltage	Based on ASTM D149-81	kV	4.8	6.1 6.4 8.3
Surface resistivity	Based on ASTM D257-83	ohm/		10 <sup>13</sup>
Volume resistivity	Based on ASTM D257-83	ohm m		10 <sup>15</sup>
<b>Permittivity</b>				(All thicknesses)
23°C, 50Hz	Based on ASTM D150-81	--		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
<b>Dissipation Factor</b>				
23°C, 50Hz	Based on ASTM D150-81	--		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		--		0.01
150°C, 50Hz		--		0.006

1µm = 1 micron = 0.001 mm approx 4 gauge, MD = Machine Direction, TD = Transverse Direction

Date of Last Revision: 03 Apr 2012

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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-50102-3-DTF and H-50103-3-DTF.

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