



**Melinex<sup>®</sup>**  
polyester film

**Melinex<sup>®</sup> OD**

**Product Description**

Melinex<sup>®</sup> OD is a sparkling clear film suitable for applications where very high transparency (or reflectivity when metallised) is more important than the best handling qualities. Melinex<sup>®</sup> OD is supplied in knurled reel form and is available in thicknesses of 125, 175 and 250 microns.

**Food contact advice**

Melinex<sup>®</sup> OD has not been assessed against European 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 VALUES OF FILM

Property	Test Method	Unit	Value		
<b>General</b>					
Thickness	DTF Method	micron	125	175	250
Area Yield	DTF Method	m <sup>2</sup> /kg	5.7	4	2.9
Relative Density (23°C)	Based on ASTM D 1505-79		1.4		
<b>Mechanical</b>					
Tensile strength at break	Based on ASTM D882-83	kgf/mm <sup>2</sup>	MD		TD
Elongation at break	Based on ASTM D882-83	%	20		20
			120		80
<b>Optical</b>					
Haze	Based on ASTM D 1003-77	%	0.4	0.7	1.5
Total Luminous Transmission (TLT)	Based on ASTM D 1003-77	%	89.5	89.2	88.7
<b>Thermal</b>					
Shrinkage (5 mins at 150°C)	Based on ASTM D 1204-78	%	MD		TD
Upper melt temperature	Based on ASTM E 794-85	C	255 to 260		
Coefficient of thermal expansion	Based on ASTM E 381-06. Between 20 - 50 C	cm/cm deg C	19 x 10 <sup>-6</sup>		19 x 10 <sup>-6</sup>
<b>Electrical</b>					
Breakdown Voltage	Based on ASTM D149-81	kV	125	105	n/a
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>					
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

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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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