



Melinex®  
polyester film

Melinex®506

Melinex® 506 is a sparkling optically clear knurled film with an adhesion promoting pretreatment on both surfaces. It is normally used in the graphics industry where its excellent clarity and printing/coating adhesion are utilised. Melinex® 506 is available in thicknesses of 75, 100, 125, 175 and 250 micron.

TYPICAL VALUES OF PROPERTIES

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 (at 23°C)	Based on ASTM D1505-79	--	1.4	
<b>Mechanical</b>				
Tensile strength at break	Based on ASTM D 882-83	kgf/mm <sup>2</sup>	17.5	17.5
F5 (force to elongate 5% of gauge length)	Based on ASTM D 882-83	kgf/mm <sup>2</sup>	10	10
<b>Optical</b>				
Haze	Based on ASTM D1003-77	%	0.5	0.5
<b>Thermal</b>				
Upper Melt temperature	Based on ASTM E794-85	°C	255 - 260	
Coefficient of thermal expansion	Based on ASTM E381-06. Between 20 - 50 C	ppm/K	19 x 10 <sup>-6</sup>	19 x 10 <sup>-6</sup>
Shrinkage (after 5mins at 150°C)	Based on ASTM D1204-78	%	1	0.5

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

**Food contact advice:** Melinex® 506 has not been assessed against Food Contact Legislation.

**Disposal advice:** Disposal of Melinex® does not present special disposal problems. In most circumstances, once Melinex® has been laminated, coated, printed or metallised, incineration with Energy Recovery is the most environmentally efficient recovery route. Melinex® 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.

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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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