



Melinex[®]
polyester film

Melinex[®] 339

Product Description

Melinex[®] 339 is an exceptionally white, opaque film pre treated on both sides to promote adhesion to most printing inks and industrial coatings. It is used as a base for pressure sensitive labels, photographic printing paper, in security and access cards, in multiple use tickets, as a substrate for medical test strips, and for other printing applications. It is available in thicknesses of 36, 50, 75, 100, 125, 175, 250 and 330 microns.

Food contact advice

Melinex[®] 339 has not been assessed against Food Contact Legislation.

Disposal advice

Disposal of Mylar[®]/Melinex[®] does not present special disposal problems. Where waste occurs in a clean, uncontaminated form it can be recycled. In most circumstances, once Mylar[®]/Melinex[®] has been laminated, coated, printed or metallised, incineration with Energy Recovery is the most environmentally efficient recovery route. Mylar[®]/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.

TYPICAL VALUES OF PROPERTIES

Property	Test Method	Unit	Value									
General												
Thickness	DTF Method	µm	36	50	75	100	125	175	250	330		
Area Yield	DTF Method	m ² /kg	19.6	14.1	9.39	7.14	5.71	4.08	2.82	2.08		
Thermal												
Upper Melt temperature	Based on ASTM E794-85	°C	255 - 260									
Shrinkage (after 5mins at 190°C)	Based on ASTM E1269-05	%	2.8					0.8				
Mechanical												
Tensile strength at break	Based on ASTM D882-83	kgf/mm ²	15					18				
Stress at 5% strain (F5)	Based on ASTM D882-83	kgf/mm ²	8					8				
Elongation at break	Based on ASTM D882-83	%	120					120				
Slip (coefficient of static friction)	Based on ASTM D1894-78							0.4				
Optical												
Total Luminous Transmission (TLT)	Based on ASTM D1003-77	%	23	19	14	8	7	4	2	1.5		
Gloss 45°	Based on ASTM D2457-90	%						50				
Colour												
WI	Based on ASTM E 313-79							118				
L*	Based on ASTM E 313-79							97				
a*	Based on ASTM E 313-79							0.1				
b*	Based on ASTM E 313-79							-4.2				
Electrical												
Surface resistivity	Based on ASTM D257-83	ohm/						>10 ¹⁴				
Permittivity (Dielectric Constant)												
23°C, 50Hz	Based on ASTM D150-81	--						2.6				
23°C, 1kHz	Based on ASTM D150-81	--						2.6				
23°C, 10kHz	Based on ASTM D150-81	--						2.4				
Chemical resistance												
Dilute acids and alkalis								Good				
Concentrated alkalis								Poor				
Concentrated hydrochloric acid								Fair				
Concentrated sulphuric acid								Poor				
Greases, oils and fats								Good				
Organic solvents, alcohols and hydrocarbons								Good				
Ketones, esters and chlorinated compounds								Fairly Good				
Phenols, cresols and chlorinated phenols								Poor				

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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