



Melinex®

polyester film

Melinex® 339

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 50, 75, 100, 125, 175, 250 and 330 microns.

TYPICAL VALUES OF PROPERTIES

Property	Test Method	Unit	Value						
General			µm						
			50	75	100	125	175	250	330
Area Yield		m ² /kg	14.1	9.39	7.14	5.71	4.08	2.82	2.08
Thermal									
Upper melt temperature	ASTM E794-85	°C	255 - 260						
Shrinkage (75 to 250 microns) (after 5 minutes at 190°C)	--	%			MD*	TD**			
					3	1			
Mechanical					MD*	TD**			
Tensile strength at break	ASTM D 882-83 (23°C at 50% rh, Strain rate 50%) 50µm film	kgf/mm ²			14	17			
Stress at 5% strain (F5)	As above	kgf/mm ²			8	8			
Elongation at break	As above	%			120	120			
Slip (static coefficient of friction)	ASTM D 1894-78 (modified to Melinex test method) 50µm film	--			0.4				
Optical			50	75	100	125	175		
Total Luminous Transmission (TLT)	ASTM D1003-77 (Gardner Hazemeter)	%	17	13	8	6	4		
Gloss 60°	ASTM D2457-90 (Gardner Hazemeter)	%			45				
Colour					97.8				
L*	ASTM E 313-79				97.8				
a*	(D65 - 10°)				0.1				
b*					-3.2				
Electrical									
Permittivity (Dielectric Constant)	ASTM D-150-81		All thicknesses						
23 C, 100 Hz			2.6						
23 C, 1KHz			2.6						
23 C, 1MHz			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 = 1micron = 0.001mm 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-DTF.

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 DuPont Teijin Films™

Melinex®

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