

Melinex

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# 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 and in general printing and drawing office applications. It is available in thicknesses of 50, 75, 100, 125, 175 and 250 microns.

### TYPICAL VALUES OF PROPERTIES

Property	Test Method	Unit	Value							
<b>General</b>			<b>µm</b>							
Area Yield		m <sup>2</sup> /kg	<b>50,</b>	<b>75,</b>	<b>100,</b>	<b>125,</b>	<b>175,</b>	<b>250</b>		
			14.08	9.39	7.14	5.71	4.08	2.82		
<b>Thermal</b>										
Upper melt temperature	ASTM E794-85	°C	255 - 260							
Shrinkage (after 5 minutes at 190°C)	--	% MD TD	<b>50,</b>	<b>75,</b>	<b>100,</b>	<b>125,</b>	<b>175,</b>	<b>250</b>		
			2	2	2	2	2	2		
			1	1	1	1	1	1		
<b>Mechanical</b>			MD*		TD**					
Tensile strength at break	ASTM D 882-83 (23°C at 50% rh, Strain rate 50%) 50µm film	kgf/mm <sup>2</sup>	14		17					
Stress at 5% strain (F5)	As above	kgf/mm <sup>2</sup>	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							
<b>Optical</b>			<b>50,</b>	<b>75,</b>	<b>100,</b>	<b>125,</b>	<b>175</b>			
Total Luminous Transmission (TLT)	ASTM D1003-77 (Gardner Hazemeter)	%	17	13	8	6	4			
Gloss	ASTM D2457-90 (Gardner Hazemeter)		35							
Whiteness	ASTM E 313-79		100	100				95		
<b>Electrical</b>										
Permittivity (Dielectric Constant)	ASTM D-150-81		All thickness							
23 C, 100 Hz			2.6							
23 C, 1KHz			2.6							
23 C, 1MHz			2.4							

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<b>Chemical resistance</b>	
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 compounds	Poor
Seawater	Good
	Meets BS5609

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

Enquiries should be addressed to:

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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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