

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
General			50, 75, 100, 125, 175, 250
Area Yield		m ² /kg	14.08 9.39 7.14 5.71 4.08 2.82
Thermal			
Upper melt temperature	ASTM E794-85		255 - 260
Shrinkage	--	% MD TD	50, 75, 100, 125, 175, 250 2 2 2 2 2 2 1 1 1 1 1 1
Mechanical			MD* TD**
Tensile strength at break	ASTM D 882-83		14 17
Stress at 5% strain (F5)	As above		8 8
Elongation at break	As above	%	120 120
Slip (static coefficient of friction)	ASTM D 1894-78 (modified to Melinex test)	--	0.4
Optical			50, 75, 100, 125, 175
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
Electrical			
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

Chemical resistance (0.001mm approx. 4 gauge, *MD = Machine Direction, **TD = Transverse Direction)	
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

Enquiries should be addressed to:

DuPont Teijin Films (Luxembourg) SA
L-2984 Luxembourg
Telephone: +352 26164004
Fax No: +352 2616 5000

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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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