



# Melinex®

polyester film

MXTD140 Issue 4  
**Melinex® 329**

Melinex® 329 is an exceptionally white, opaque film. It is used as a base for pressure sensitive labels, in security and access cards, in multiple use tickets, as a base film in drawing office applications and as printing medium. It is available in a thickness range of 50, 75, 100, 125, 175, and 330 microns.

## TYPICAL VALUES OF PROPERTIES

Property	Test Method	Unit	Value						
			µm						
General			50	75	100	125	175	250	330
Area Yield		m <sup>2</sup> /kg	14.08	9.39	7.14	5.71	4.08	2.82	2.08
<b>Thermal</b>									
Upper melt temperature	ASTM E794-85	°C	255-260						
Shrinkage (after 5 minutes at 190°C)	--	% MD TD	2 1	3 1	3 1	3 1	2.8 1	2.8 1	2.8 1
<b>Mechanical</b>									
Tensile strength at break	ASTM D 882-83 (23°C at 50% rh, Strain rate 50%) 50µm film	kgf/mm <sup>2</sup>	MD*			TD**			
Stress at 5% strain (F5)	As above	kgf/mm <sup>2</sup>	14			17			
Slip (static coefficient of friction)	ASTM D 1894-78 (modified to Melinex test method) 50µm film	--	8			8			
<b>Optical</b>									
Total Luminous Transmission (TLT)	ASTM D1003-77 (Gardner Hazemeter)	%	50	75	100	125	175		
Gloss 60°	ASTM D2457-90 (Gardner Hazemeter)	%	17	13	8	6	4		
Colour									
L*	ASTM E 313-79						97.8		
a*	(D65 - 10°)						0.1		
b*							-3.2		
<b>Electrical</b>									
Surface resistivity	ASTM D 257-83 (500V dc at 20°C and 95% rh) 50µm film	ohm/	>10 <sup>14</sup>						
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						

<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 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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