

## MELINEX® 329

Melinex® 329 is an opaque white, non-pretreated, polyester film with superb handling properties and a unique glossy appearance.

Melinex® 329 is used as a base for pressure sensitive labels, in security and access cards, in multiple use tickets and in general printing applications. It is also used for medical diagnostic test strips.

### APPROVALS:

**UL recognized** - Product has been registered with Underwriters Laboratories

#### Typical Properties

##### Available Thickness [Gauge]

75; 92; 142; 200; 300; 400; 500; 700; 820; 1400

Property	Thickness	Value	Units	Test
<b>ELECTRICAL</b>				
Dielectric Strength	92	4,600	volts	ASTM D149 1/4" electrode 500 V/sec 25°C in air
Dielectric Strength	200	8,800	volts	ASTM D149
Dielectric Strength	300	10,200	volts	ASTM D149
Dielectric Strength	500	13,500	volts	ASTM D149
Dielectric Strength	700	16,400	volts	ASTM D149
Surface Resistivity	200	>10 <sup>14</sup>	Ohm/square	ASTM D257-83 (500 V DC at 20°C and 95% rh)
<b>OPTICAL</b>				
Gloss 45 Degrees	75 - 1400	40	%	ASTM D1003
Gloss 60 Degrees	75 - 1400	45	%	ASTM D1003
TLT	92	23	%	ASTM D1003
TLT	200	16	%	ASTM D1003
TLT	300	9	%	ASTM D1003
TLT	500	6	%	ASTM D1003
TLT	700	3	%	ASTM D1003
Whiteness	200	100	%	ASTM E 313-79
Whiteness	300	100	%	ASTM E 313-79
<b>PHYSICAL</b>				
C.O.F. (dynamic) A-B	75 - 1400	0.3 - 0.4		ASTM D1894
Density	75 - 142	1.40	g/cm <sup>3</sup>	
Density	200 - 300	1.43	g/cc	ASTM D1505
Density	380 - 700	1.48	g/cc	ASTM D1505
Density	820 - 1400	1.51	g/cm <sup>3</sup>	ASTM D1505
Elongation at Break MD	75 - 1400	115	%	ASTM D882A
Elongation at Break TD	75 - 1400	90	%	ASTM D882A
Tensile Strength MD	75 - 1400	22,000	psi	ASTM D882A
Tensile Strength TD	75 - 1400	23,000	psi	ASTM D882A
Yield (nominal)	75	26,500	in <sup>2</sup> /lb	
Yield (nominal)	92	21,800	in <sup>2</sup> /lb	
Yield (nominal)	142	14,000	in <sup>2</sup> /lb	
Yield (nominal)	200	9,900	in <sup>2</sup> /lb	
Yield (nominal)	300	6,600	in <sup>2</sup> /lb	
Yield (nominal)	400	5,000	in <sup>2</sup> /lb	
Yield (nominal)	500	4,000	in <sup>2</sup> /lb	
Yield (nominal)	700	2,800	in <sup>2</sup> /lb	
Yield (nominal)	820	2,400	in <sup>2</sup> /lb	
Yield (nominal)	1400	1,400	in <sup>2</sup> /lb	
Yield Strength MD	75 - 1400	12,000	psi	ASTM D882A
Yield Strength TD	75 - 1400	12,000	psi	ASTM D882A
<b>THERMAL</b>				
Shrinkage MD (190°C)	92	3.0	%	Unrestrained @ 190°C/5 min
Shrinkage MD (190°C)	142 - 200	2.8	%	Unrestrained @ 190°C/5 min
Shrinkage MD (190°C)	300 - 1400	1.5	%	Unrestrained @ 190°C/5 min
Shrinkage TD (190°C)	92	2.5	%	Unrestrained @ 190°C/5 min
Shrinkage TD (190°C)	142 - 200	1.0	%	Unrestrained @ 190°C/5 min
Shrinkage TD (190°C)	300 - 1400	1.5	%	Unrestrained @ 190°C/5 min

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