



DuPont Teijin Films™

MELINEX® 329

Product Description

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

Typical Applications

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; 380; 500; 700; 820; 1000; 1400

Property	Thickness	Value	Units	Test
ELECTRICAL				
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 ¹⁴	Ohm/square	ASTM D257-83 (500 V DC at 20°C and 95% rh)

OPTICAL				
Gloss 45 Degrees	75 - 1400	40	%	ASTM D1003
Gloss 60 Degrees	75 - 1400	45	%	ASTM D1003
Total Light Transmission (TLT)	92	23	%	ASTM D1003
Total Light Transmission (TLT)	200	16	%	ASTM D1003
Total Light Transmission (TLT)	300	9	%	ASTM D1003
Total Light Transmission (TLT)	500	6	%	ASTM D1003
Total Light Transmission (TLT)	700	3	%	ASTM D1003
Whiteness	200	100	%	ASTM E 313-79
Whiteness	300	100	%	ASTM E 313-79
PHYSICAL				
C.O.F. (dynamic) A-B	75 - 1400	0.3 - 0.4		ASTM D1894
Density	75 - 142	1.40	g/cm3	
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 ³	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	26,448	in ² /lb	
Yield (nominal)	92	21,798	in ² /lb	
Yield (nominal)	142	13,969	in ² /lb	
Yield (nominal)	200	9,825	in ² /lb	
Yield (nominal)	300	6,562	in ² /lb	
Yield (nominal)	380	4,922	in ² /lb	
Yield (nominal)	500	3,801	in ² /lb	
Yield (nominal)	700	2,711	in ² /lb	
Yield (nominal)	820	2,235	in ² /lb	
Yield (nominal)	1000	1,833	in ² /lb	
Yield (nominal)	1400	1,328	in ² /lb	
Yield Strength MD	75 - 1400	12,000	psi	ASTM D882A
Yield Strength TD	75 - 1400	12,000	psi	ASTM D882A
THERMAL				
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

Contact Info

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Disclaimer

Note: These values are typical performance data for DuPont Teijin Films' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

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