



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
Elongation at Break MD	75 - 1400	115	%	ASTM D882A
Elongation at Break TD	75 - 1400	90	%	ASTM D882A
Tensile Strength MD	75 - 1400	16,000	psi	ASTM D882A
Tensile Strength TD	75 - 1400	19,000	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

DuPont Teijin Films U.S. Limited Partnership
 3600 Discovery Drive
 Chester, VA 23836 USA
 Tel: (800) 635-4639
 Fax: (804) 530-9867

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.

CAUTION: Do not use in medical applications involving permanent implantation in the human body ([DuPont Teijin Films Medical Policy](#)). For other medical applications, see the [Medical Caution Statement](#). DuPont Teijin Films accepts no liability for use of its products in medical applications not reviewed and approved by DuPont Teijin Films or for product misuse. DuPont Teijin Films supplies products to an agreed specification and does not manufacture products designed specifically for medical end use.

Melinex®, Mylar® and Melinex® ST™ are registered trademarks of DuPont Teijin Films U.S. Limited Partnership. Teijin® and Teton® are registered trademarks of Teijin Limited used under license by DuPont Teijin Films U.S. Limited Partnership. Teonex® is a registered trademark of Teijin DuPont Films Japan Limited and is used under license by DuPont Teijin Films U.S. Limited Partnership.