

Dr. Dietrich Müller GmbH, Zeppelinring 18, D-26197 Ahlhorn

Electrical Insulation Materials

Melinex® 329 FI 13021

Description: Melinex® 329 FI 13021 is an opaque white, non-pretreated, polyester film with superb handling properties and an unique glossy appearance. Melinex® 329 FI 13021 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.

Property	Thickness	Test method	Unit	Value
ELECTRICAL				
Dielectric Strength	92	ASTM D149	Volts	4,600
Dielectric Strength	200	ASTM D149	Volts	8,800
Dielectric Strength	300	ASTM D149	Volts	10,200
Dielectric Strength	500	ASTM D149	Volts	13,500
Dielectric Strength	700	ASTM D149	Volts	16,400
Surface Resistivity	200	ASTM D257-83	Ohm/square	>10 ¹⁴
OPTICAL				
Gloss 45 Degrees	75-1400	ASTM D1003	%	40
Gloss 60 Degrees	75-1400	ASTM D1003	%	45
TLT	92	ASTM D1003	%	23
TLT	200	ASTM D1003	%	16
TLT	300	ASTM D1003	%	9
TLT	500	ASTM D1003	%	6
TLT	700	ASTM D1003	%	3
Whiteness	200	ASTM E 313-79	%	100
Whiteness	300	ASTM E 313-79	%	100

Stand January 2015

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 info@mueller-ahlhorn.com | www.mueller-ahlhorn.com | Sitz der Gesellschaft: Ahlhorn
 Geschäftsführer: Heinz-Jürgen Siebert | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093
 St.-Nr.: 68/207/07677 | Zertifiziert nach DIN EN ISO 9001:2008 | UL anerkannter Repacker E341377

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PHYSICAL				
C.O.F. (dynamic) A-B	75-1400	ASTM D1894		0.3-0.4
Density	75-142	-	g/cm ³	1.40
Density	200-300	ASTM D1505	g/cc	1.43
Density	380-700	ASTM D1505	g/cc	1.48
Density	820-1400	ASTM D1505	g/cm ³	1.51
Elongation at Break MD	75-1400	ASTM D882A	%	115
Elongation at Break TD	75-1400	ASTM D882A	%	90
Tensile Strength MD	75-1400	ASTM D882A	psi	22,000
Tensile Strength TD	75-1400	ASTM D882A	psi	23,000
Yield (nominal)	75	-	in ² /lb	26,500
Yield (nominal)	92	-	in ² /lb	21,800
Yield (nominal)	142	-	in ² /lb	14,000
Yield (nominal)	200	-	in ² /lb	9,900
Yield (nominal)	300	-	in ² /lb	6,600
Yield (nominal)	400	-	in ² /lb	5,000
Yield (nominal)	500	-	in ² /lb	4,000
Yield (nominal)	700	-	in ² /lb	2,800
Yield (nominal)	820	-	in ² /lb	2,400
Yield (nominal)	1400	-	in ² /lb	1,400
Yield Strength MD	75-1400	ASTM D882A	psi	12,000
Yield Strength TD	75-1400	ASTM D882A	psi	12,000
THERMAL				
Shrinkage MD (190°C)	92	Unrestrained @ 190°C/5 min	%	3.0
Shrinkage MD (190°C)	142-200	Unrestrained @ 190°C/5 min	%	2.8
Shrinkage MD (190°C)	300-1400	Unrestrained @ 190°C/5 min	%	1.5
Shrinkage TD (190°C)	92	Unrestrained @ 190°C/5 min	%	2.5
Shrinkage TD (190°C)	142-200	Unrestrained @ 190°C/5 min	%	1.0
Shrinkage TD (190°C)	300-1400	Unrestrained @ 190°C/5 min	%	1.5

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Melinex[®] 329 FI 13021

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