

**POLYESLINE S.L.**

Polígono Industrial "Els Mollons". C/ Tapissers, 4 – 46970 Alaquas, Valencia –Spain.

Tel: 0034 96 006 65 10 e-mail: comercial@polyesline.com

Web site: www.polyesline.com**Technical Datasheet - US Customary Units****Melinex® S****Product Description**

Melinex® S is a general purpose film which combines excellent handling characteristics with a slightly hazy appearance. It is available in thicknesses of 48, 75, 92, 142, 200, 300, 400 and 500 and is used for the full range of Melinex® applications.

Approvals

UL Recognition - Product has been registered with Underwriters Laboratories.

Typical Properties

Property	Thickness	Value	Units	Test
ELECTRICAL				
Surface Resistivity	All	10 ¹⁵	Ohms/sq	ASTM D257 500 V DC @ 25 50% RH
Volume Resistivity	All	10 ¹⁷	Ohm - cm	ASTM D257 100 V DC @ 25 , and 100 sec
OPTICAL				
Haze	48	3.1	%	ASTM D1003
Haze	75	5.3	%	ASTM D1003
Haze	92	5.6	%	ASTM D1003
Haze	142	7.5	%	ASTM D1003
Haze	200	9.0	%	ASTM D1003
Haze	300	13.8	%	ASTM D1003
Haze	400	15.6	%	ASTM D1003
Haze	500	20.7	%	ASTM D1003
Total Light Transmission (TLT)	48	88.5	%	ASTM D1003
Total Light Transmission (TLT)	75	88.0	%	ASTM D1003
Total Light Transmission (TLT)	92	87.0	%	ASTM D1003
Total Light Transmission (TLT)	142	86.5	%	ASTM D1003
Total Light Transmission (TLT)	200	85.5	%	ASTM D1003
Total Light Transmission (TLT)	300	84.5	%	ASTM D1003
Total Light Transmission (TLT)	400	83.0	%	ASTM D1003
Total Light Transmission (TLT)	500	81.0	%	ASTM D1003
PHYSICAL				
C.O.F. (dynamic) A-B	All	0.4		ASTM D1894
Density	All	1.40	g/cc	
Elongation at Break MD	All	160	%	ASTM D882A
Elongation at Break TD	All	100	%	ASTM D882A
Tensile Strength MD	All	29,000	psi	ASTM D882A



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Tensile Strength TD	All	37,000	psi	ASTM D882A
Yield (nominal)	48	42,200	in ² /lb	
Yield (nominal)	75	26,500	in ² /lb	
Yield (nominal)	92	21,800	in ² /lb	
Yield (nominal)	142	14,000	in ² /lb	
Yield (nominal)	200	9,900	in ² /lb	
Yield (nominal)	300	6,600	in ² /lb	
Yield (nominal)	400	5,047	in ² /lb	
Yield (nominal)	500	4,000	in ² /lb	
Yield Strength MD	All	14,500	psi	ASTM D882A
Yield Strength TD	All	14,400	psi	ASTM D882A

THERMAL

Shrinkage MD (190)	48 - 92	3.5	%	Unrestrained @ 190 /5 min
Shrinkage MD (190)	142 - 500	2.5	%	Unrestrained @ 190 /5 min
Shrinkage TD (190)	48 - 92	3.5	%	Unrestrained @ 190 /5 min
Shrinkage TD (190)	142 - 500	0.5	%	Unrestrained @ 190 /5 min

Date of Last Revision: 13 May 2024

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