

TESLIN SYNTHETIC PAPER

DESCRIPTION

Teslin, from PPG Industries, is a microporous, dimensionally stable, highly filled, single-layer polyolefin-based synthetic material. A non-abrasive inorganic filler comprises 60 percent of the substrate by weight, and it is 65 percent air by volume. The porous, uncoated nature of Teslin substrate allows inks, adhesives, coatings, and laminating films to penetrate into its structure and form strong interlocking bonds with the substrate.

CHARACTERISTICS

- Easily printed by flexography, lithography, screen, and thermal transfer systems
- Can be folded, die cut, heat sealed, grommited, glued and sewn
- Excellent chemical, abrasion, and temperature resistance
- Microporous structure transmits vapors but not liquids
- Can be impregnated with fragrances for specialty applications
- Excellent substrate for laminating core

COMPLIANCE

Please visit transcendia.com/compliance for more compliance information.

TECHNICAL DATA

PROPERTY	UNIT OF MEASURE	TYPICAL PROPERTIES				TEST METHOD
		SP 700 ²	SP 800 ²	SP 1400 ²	HD 1400	
Gauge	mils	7	8	14	14	ASTM D374
Tolerance	+/- mils	0.7	0.7	0.9	0.9	
Yield	in. ² /lb.	6,263	5,143	2,907	2,549	ASTM D3776
	oz./sq. yd.	3.31	3.89	7.38	8.73	
Base Weight 500 sheets 25" x 38"	-	72	82	186	290	
Density (g/cc)	g/cc	0.63	0.65	0.71	0.84	-
MD Tensile Strength	lb./in.	14.4	16.5	25	39	ASTM D882
	N/cm	25.2	28.8	39.6	68.2	
Elongation	%	650	700	790	860	
1% Modulus		3.3	3.6	4.2	4.9	
CD Tensile Strength	lb./in.	5.9	6.7	11	14	
	N/cm	10.3	11.6	19.6	24.5	
Elmendorf Tear	MD	93	111	188	261	
	CD	tore to MD				
Brittleness Temperature		<-70°C				
Shrinkage		1.8	1.7	1.3	1.8	
Brightness	%	89	90	92	92	ISO 2470
Whiteness Index		80	80	85	82	ASTM E313
Opacity	%	92	94	98	99	ISO-2471
Transmission	%	15	11	5	4	ASTM D1003
Sheffield	Top	41	44	40	49	ASTM T538
Smoothness	Bottom	64	65	54	99	

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Revision Date: 10/1/2026

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