

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 <https://www.transcendia.com/compliance> for more compliance information.

TECHNICAL DATA

PROPERTY	UNIT OF MEASURE	TYPICAL PROPERTIES					TEST METHOD
		SP 700 ²	SP 800 ²	SP 1000 ²	SP 1400 ²	HD 1400	
Gauge	mils	7.0	8.0	10.0	14.0	14.0	ASTM D374
Tolerance	+/- mils	0.7	0.7	0.7	0.9	0.9	
Yield	in. ² /lb.	6,263	5,143	4,150	2,907	2,549	ASTM D3776
	oz./sq. yd.	3.31	3.89	4.93	7.38	8.73	
Base Weight 500 sheets 25" x 38"	-	72	82	102	186	290	
Density (g/cc)	g/cc	0.63	0.65	0.68	0.71	0.84	-
MD Tensile Strength	lb./in.	14.4	16.5	19.6	25.0	39.0	ASTM D882
	N/cm	25.2	28.8	34.3	39.6	68.2	
Elongation	%	650	700	750	790	860	
1% Modulus		3.3	3.6	3.7	4.2	4.9	
CD Tensile Strength	lb./in.	5.9	6.7	8.4	11.0	14.0	
	N/cm	10.3	11.6	15.1	19.6	24.5	
Elmendorf Tear	MD	93	111	141	188	261	
	CD	tore to MD					
Brittleness Temperature		<-70°C					ASTM D746
Shrinkage		1.8	1.7	1.5	1.3	1.8	
Brightness	%	89	90	91	92	92	ISO 2470
Whiteness Index		80	80	80	85	82	ASTM E313
Opacity	%	92	94	96	98	99	ISO-2471
Transmission	%	15	11	8	5	4	ASTM D1003
Sheffield Smoothness	Top	41	44	42	40	49	ASTM T538
	Bottom	64	65	66	54	99	

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