



TESLIN
Enabling Substrate Technology from PPG

Standard Specification – TESLIN® SP800 Substrate (8 mil/203 micron)

TESLIN® substrate from PPG Industries is a microporous, highly filled, single-layer, polyolefin synthetic material. An inorganic filler comprises 60 percent of the 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, forming strong interlocking bonds with the substrate.

Standard Specification Limits

<u>Property</u>	<u>Tolerance</u>	<u>Unit</u>	<u>Method</u>
Gauge	7.3 - 8.7	mils	ASTM D-374
Gauge	185 - 221	microns	ASTM D-374
Sheffield Smoothness (Top Surface)	10 - 75	Sheffield units	Tappi T-538
Sheffield Smoothness (Bottom Surface)	10 - 100	Sheffield units	Tappi T-538
Whiteness Index¹	75 min.	%	ASTM E-313
Shrinkage²	4.0 max.	%	PPG method
Visual Inspection (Black Specks)³	300 max.	count/1000m ²	PPG method
Visual Inspection (Holes)³	200 max.	count/1000m ²	PPG method
Visual Inspection (Inclusions)³	200 max.	count/1000m ²	PPG method

- 1 As measured at time of manufacture. Blue grade has Whiteness Index value of 85 – 110 %. All other properties/specifications are the same for Blue and SP grades.
- 2 The maximum allowable shrinkage for TS grade is 2% (measured at 135 °C for 15 minutes in a forced air oven). All other properties/specifications are the same for TS and SP grades.
- 3 Minimum detectable defect size by the Visual Inspection System: 0.3 mm².

Updated: 04282015



PPG Industries

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