



**TESLIN**  
Enabling Substrate Technology from PPG

## Standard Specification – TESLIN® SP600 Substrate (6 mil/148 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>
<b>Gauge</b>	5.2 - 6.2	mils	ASTM D-374
<b>Gauge</b>	132 - 158	microns	ASTM D-374
<b>Sheffield Smoothness (Top Surface)</b>	10 - 65	Sheffield units	Tappi T-538
<b>Sheffield Smoothness (Bottom Surface)</b>	10 - 100	Sheffield units	Tappi T-538
<b>Whiteness Index<sup>1</sup></b>	75 min.	%	ASTM E-313
<b>Shrinkage<sup>2</sup></b>	4.0 max.	%	PPG method
<b>Visual Inspection (Black Specks)<sup>3</sup></b>	300 max.	count/1000m <sup>2</sup>	PPG method
<b>Visual Inspection (Holes)<sup>3</sup></b>	200 max.	count/1000m <sup>2</sup>	PPG method
<b>Visual Inspection (Inclusions)<sup>3</sup></b>	200 max.	count/1000m <sup>2</sup>	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 2.5% (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 mm<sup>2</sup>.

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**PPG Industries**

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