

# Teslin® SP 1000

Polyethylene  
PPG Industries, Inc.

## Message:

Teslin ® substrate, from PPG Industries, is a microporous, dimensionally stable, highly filled, single-layer, polyolefin synthetic material. A non-abrasive 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.

General Information			
Filler / Reinforcement	Inorganic,60% Filler by Weight, 65% Filler by Volume		
Features	Good Abrasion Resistance		
	Good Dimensional Stability		
	Porous		
Forms	Film		
Physical	Nominal Value	Unit	
Specific Gravity	0.680	g/cm³	
Molding Shrinkage	1.5	%	
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD	3.70	MPa	ASTM D882
Tensile Elongation - MD (Break)	750	%	ASTM D882
Elmendorf Tear Strength - MD	140	g	ASTM D1922
Yield	5.90	m²/kg	ASTM D3776
Brightness	91	%	ISO 2470
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Optical	Nominal Value	Unit	Test Method
Opacity	96	%	ISO 2471
Transmittance	8.0	%	ASTM D1003
Whiteness Index	80		ASTM E313

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