



Skyrol® Polyester Film

SP81

Product Information

● Product Description

Skyrol® SP81 is a one side chemically treated polyester film for solvent based ink adhesion. SP81 is widely accepted for many flexible packaging applications, especially for those requiring high quality printing. SP81 is available in range of thickness from 48ga to 120ga. SP81 is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

SP81 is a PET film, and is recyclable under the code . This statement may not apply once the film has been modified.

● Typical Properties

Property	Unit	Value					Test Method
General							
Nominal Thickness	Gauge (μm)	48 (12)	60 (15)	75 (19)	92 (23)	120 (30)	SKC Method
WVTR	$\text{g/m}^2 \cdot 24\text{hr}$	27.8					ASTM F1249
OTR	$\text{cm}^3/\text{m}^2 \cdot 24\text{hr} \cdot \text{atm}$	74.5					ASTM D3985
Density	g/cm^3	1.4	1.4	1.4	1.4	1.4	ASTM D1505
Mechanical							
Tensile Strength	Kpsi MD	41.0	34.0	34.0	34.0	32.5	ASTM D882
		TD	38.0	38.0	38.0	38.0	
Elongation At Break	% MD	130	170	160	185	180	ASTM D882
		TD	130	120	120	130	
Surface							
Coefficient of Friction	μk (Kinetic)	0.33	0.33	0.33	0.30	0.30	ASTM D1894
	μs (Static)	0.41	0.41	0.37	0.37	0.37	
Surface Tension	Dyne Treated Plain	36	36	36	36	36	ASTM D 2578
		45	45	45	45	45	
Optical							
Haze	%	3.0	3.3	3.7	4.0	4.4	ASTM D1003
Light Transmission	%	90.0	90.5	90.5	90.0	89.9	ASTM D1003
Gloss	%	162	157	155	155	157	ASTM D523
Thermal							
Heat Shrinkage	% MD	2.00	1.90	1.90	1.35	1.50	SKC Method (150°Cx30 min)
	TD	0.80	0.90	0.90	1.30	1.50	

* Unit Correlation : $\text{N/mm}^2 = \text{Kg/mm}^2 \times 9.8$
 $\text{Kg/mm}^2 = \text{Kpi} / 1.4223$

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This Information is the best currently available on the subject. The results should, however, only be regarded as a general guide to material properties and not as a guarantee. Some of the properties can be changed as a result of supplier's efforts to improve the quality or production efficiency of the subject.
 Note: Please read the Material Safety Data Sheet(MSDS) carefully prior to use.