

Skyrol® SP81

Polyethylene Terephthalate

SKC Inc.

Message:

Skyrol® SP81 is a one side chemically treated polyester film for improved solvent based ink adhesion. SP81 has been widely accepted for many flexible packaging applications, especially for those requiring high quality printing.

General Information			
UL YellowCard	E74359-249671		
Features	Excellent Printability		
	Good Flexibility		
Uses	Film		
	General Purpose		
	Laminates		
	Release Film		
	Sheet		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.40	g/cm ³	ASTM D1505
Molding Shrinkage			
Flow : 150°C, 30 min, 0.0120 mm	1.7	%	Internal Method
Flow : 150°C, 30 min, 0.0230 mm	1.6	%	Internal Method
Flow : 150°C, 30 min, 0.0295 mm	1.5	%	ASTM D955
Across Flow : 150°C, 30 min, 0.0120 mm	1.1	%	Internal Method
Across Flow : 150°C, 30 min, 0.0230 mm	0.70	%	Internal Method
Across Flow : 150°C, 30 min, 0.0295 mm	0.90	%	ASTM D955
Surface Tension - Treated			ASTM D2578
12.0 µm	50	mN/m	
23.0 µm	50	mN/m	
29.5 µm	50	mN/m	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic ²	0.30		
vs. Itself - Dynamic ³	0.30		
vs. Itself - Dynamic ⁴	0.30		
vs. Itself - Static ⁵	0.30		
vs. Itself - Static ⁶	0.40		
vs. Itself - Static ⁷	0.40		

Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD : Yield,12 μm	283	MPa	
MD : Yield,23 μm	262	MPa	
MD : Yield,30 μm	255	MPa	
TD : Yield,12 μm	290	MPa	
TD : Yield,23 μm	255	MPa	
TD : Yield,30 μm	234	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 μm	130	%	
MD : Break, 23 μm	130	%	
MD : Break, 30 μm	130	%	
TD : Break, 12 μm	99	%	
TD : Break, 23 μm	120	%	
TD : Break, 30 μm	130	%	
Optical	Nominal Value	Unit	Test Method
Gardner Gloss			ASTM D523
12.0 μm	166		
23.0 μm	161		
29.5 μm	162		
Transmittance			ASTM D1003
12.0 μm	91.0	%	
23.0 μm	90.0	%	
29.5 μm	90.0	%	
Haze			ASTM D1003
12.0 μm	3.2	%	
23.0 μm	3.5	%	
29.5 μm	4.1	%	
NOTE			
1.	29.5 μm		
2.	23 μm		
3.	12 μm		
4.	29.5 μm		
5.	12 μm		
6.	29.5 μm		
7.	23 μm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

