

Skyrol® SM40

Polyethylene Terephthalate

SKC Inc.

Message:

Skyrol® SM40 is a transparent film with excellent handling characteristics and widely used in stamping foil, metallizing, and metallic yarn applications. SM40 has high resistance to the neckdown or creasing caused by high temperature and high tension coating operation.

General Information			
UL YellowCard	E74359-249671		
Features	Good Processability		
	Low Neck-In		
Uses	Film		
	Foil Coatings		
	Yarn		
Appearance	Clear/Transparent		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.40	g/cm ³	ASTM D1505
Molding Shrinkage			
Flow : 190°C, 20 min, 0.0120 mm	2.8	%	Internal Method
Flow : 190°C, 20 min, 0.0150 mm	2.6	%	Internal Method
Flow : 190°C, 20 min, 0.0190 mm	2.6	%	ASTM D955
Flow : 190°C, 20 min, 0.0230 mm	2.6	%	ASTM D955
Across Flow : 190°C, 20 min, 0.0120 mm	-0.40	%	Internal Method
Across Flow : 190°C, 20 min, 0.0150 mm	-0.30	%	Internal Method
Across Flow : 190°C, 20 min, 0.0190 mm	-0.30	%	ASTM D955
Across Flow : 190°C, 20 min, 0.0230 mm	-0.20	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic ²	0.40		
vs. Itself - Dynamic ³	0.40		
vs. Itself - Dynamic ⁴	0.40		
vs. Itself - Dynamic ⁵	0.40		
vs. Itself - Static ⁶	0.40		
vs. Itself - Static ⁷	0.40		
vs. Itself - Static ⁸	0.50		
vs. Itself - Static ⁹	0.50		
Films	Nominal Value	Unit	Test Method

Tensile Strength			ASTM D882
MD : Yield,12 µm	269	MPa	
MD : Yield,15 µm	269	MPa	
MD : Yield,19 µm	255	MPa	
MD : Yield,23 µm	234	MPa	
TD : Yield,12 µm	228	MPa	
TD : Yield,15 µm	234	MPa	
TD : Yield,19 µm	241	MPa	
TD : Yield,23 µm	234	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 µm	120	%	
MD : Break, 15 µm	130	%	
MD : Break, 19 µm	130	%	
MD : Break, 23 µm	150	%	
TD : Break, 12 µm	130	%	
TD : Break, 15 µm	140	%	
TD : Break, 19 µm	130	%	
TD : Break, 23 µm	130	%	
Optical	Nominal Value	Unit	Test Method
Gardner Gloss			ASTM D523
12.0 µm	164		
15.0 µm	162		
19.0 µm	164		
23.0 µm	164		
Transmittance			ASTM D1003
12.0 µm	90.0	%	
15.0 µm	90.0	%	
19.0 µm	90.0	%	
23.0 µm	90.0	%	
Haze			ASTM D1003
12.0 µm	2.9	%	
15.0 µm	3.4	%	
19.0 µm	3.4	%	
23.0 µm	3.5	%	
NOTE			
1.	19 µm		
2.	23 µm		
3.	19 µm		
4.	15 µm		
5.	12 µm		
6.	12 µm		
7.	23 µm		

8.	15 μm
9.	19 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

