

Skyrol® SM30

Polyethylene Terephthalate

SKC Inc.

Message:

Skyrol® SM30 is a transparent film with excellent handling characteristics. It is widely used in stamping foil, metallizing, metallic yarn, flexible packaging and adhesive tape applications. SM30 is highly resistant to "neckdown" or creasing caused by high-temperature, high-tension coating operations.

General Information			
UL YellowCard	E74359-249671		
Features	Good Processability Low Neck-In		
Uses	Film Packaging Tape 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	2.9	%	Internal Method
Flow : 190°C, 20 min, 0.0230 mm	2.3	%	ASTM D955
Flow : 190°C, 20 min, 0.0360 mm	2.5	%	ASTM D955
Across Flow : 190°C, 20 min, 0.0120 mm	-0.10	%	Internal Method
Across Flow : 190°C, 20 min, 0.0230 mm	0.30	%	ASTM D955
Across Flow : 190°C, 20 min, 0.0360 mm	0.60	%	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	0.30		
vs. Itself - Static ⁵	0.50		
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	269	MPa	
MD : Yield, 23 µm	255	MPa	

MD : Yield,36 μm	228	MPa	
TD : Yield,12 μm	228	MPa	
TD : Yield,23 μm	241	MPa	
TD : Yield,36 μm	221	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 μm	120	%	
MD : Break, 23 μm	130	%	
MD : Break, 36 μm	150	%	
TD : Break, 12 μm	130	%	
TD : Break, 23 μm	130	%	
TD : Break, 36 μm	140	%	
Optical	Nominal Value	Unit	Test Method
Gardner Gloss			ASTM D523
12.0 μm	164		
23.0 μm	163		
36.0 μm	161		
Transmittance			ASTM D1003
12.0 μm	90.0	%	
23.0 μm	90.0	%	
36.0 μm	89.0	%	
Haze			ASTM D1003
12.0 μm	3.0	%	
23.0 μm	3.6	%	
36.0 μm	4.6	%	

NOTE

- | | |
|----|-------|
| 1. | 36 μm |
| 2. | 23 μm |
| 3. | 12 μm |
| 4. | 36 μm |
| 5. | 12 μm |
| 6. | 36 μm |
| 7. | 23 μm |

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