

Skyrol® SH82

Polyethylene Terephthalate

SKC Inc.

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Skyrol® SH82 is an optically very clear, glossy polyester film. SH82 is both side pretreated for adhesion promotion. SH82 was developed for use as substrate for printing labels, color proofing, masking, overhead projection transparencies, engineering drawing, drafting, etc. and is available in thicknesses from 200 to 1000 gauge.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet - 200 Gauge (English) • Technical Datasheet - 400 Gauge (English)
UL Yellow Card ²	• E74359-456682 • E74359-249671
Search for UL Yellow Card	• SKC Inc. • Skyrol®
Availability	• Asia Pacific • Europe • North America
Features	• Good Adhesion • Good Optical Properties • High Gloss
Uses	• Film • Labels • Sheet
Appearance	• Clear/Transparent
Forms	• Film

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density ⁴	1.40 g/cm ³	1.40 g/cm ³	ASTM D1505
Molding Shrinkage			Internal Method
Flow : 302°F (150°C), 30 min, 0.00197 in (0.0500 mm)	0.012 in/in	1.2 %	
Flow : 302°F (150°C), 30 min, 0.00394 in (0.100 mm)	0.010 in/in	1.0 %	
Across Flow : 302°F (150°C), 30 min, 0.00197 in (0.0500 mm)	5.0E-3 in/in	0.50 %	
Across Flow : 302°F (150°C), 30 min, 0.00394 in (0.100 mm)	5.0E-3 in/in	0.50 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic ⁴	0.40	0.40	
vs. Itself - Dynamic ⁵	0.40	0.40	
vs. Itself - Static ⁴	0.50	0.50	
vs. Itself - Static ⁵	0.50	0.50	

Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (50 µm)	30000 psi	207 MPa	
MD : Yield, 3.9 mil (100 µm)	28000 psi	193 MPa	
TD : Yield, 2.0 mil (50 µm)	33000 psi	228 MPa	
TD : Yield, 3.9 mil (100 µm)	31000 psi	214 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (50 µm)	160 %	160 %	
MD : Break, 3.9 mil (100 µm)	180 %	180 %	
TD : Break, 2.0 mil (50 µm)	130 %	130 %	
TD : Break, 3.9 mil (100 µm)	120 %	120 %	



Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss			ASTM D523
1.97 mil (50.0 µm)	187	187	
3.94 mil (100 µm)	188	188	
Light Transmittance			ASTM D1003
1.97 mil (50.0 µm)	90.0 %	90.0 %	
3.94 mil (100.00 µm)	90.0 %	90.0 %	
Haze			ASTM D1003
1.97 mil (50.0 µm)	0.900 %	0.900 %	
3.94 mil (100.00 µm)	1.20 %	1.20 %	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 50 µm

⁵ 100 µm



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Where to Buy

Supplier

SKC Inc.

Covington, Covington USA

Telephone: 866-752-3456

Web: <http://www.skcfilms.com/>

Distributor

Please contact the supplier to find a distributor for Skyrol® SH82

