



Skyrol® Polyester Film

SH82

Product Information

● Product Description

Skyrol® SH82 is an optically clear, glossy, two side chemically treated film. It provides an enhanced adhesion to various inks and adhesives.

SH82 film is available in a range of thickness from 200ga to 700ga, and is used for high quality printing and solvent coating applications.

SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value								Test Method	
General											
Nominal Thickness	Gauge (μm)	200 (50)	265 (67)	300 (75)	380 (96.5)	400 (100)	460 (116.8)				SKC Method
Mechanical											
Tensile Strength	Kpsi MD	28.5	27.0	26.5	25.5	25.5	25.0				ASTM D882
	TD	33.0	33.0	32.0	30.0	30.0	29.0				
Elongation At Break	% MD	165	180	180	185	185	190				ASTM D882
	TD	125	130	130	140	140	140				
Surface											
Coefficient of Friction	μk (Kinetic)	0.38	0.38	0.39	0.39	0.39	0.39				ASTM D1894
	μs (Static)	0.43	0.43	0.43	0.43	0.43	0.43				
Surface Tension	Dyne Chemical	36	36	36	36	36	36				ASTM D 2578
Optical											
Haze	%	0.90	1.00	1.10	1.30	1.40	1.50				ASTM D1003
Light Transmission	%	90.3	90.2	90.2	90.1	90.1	90.0				ASTM D1003
Gloss	%	190	190	190	190	190	187				ASTM D523 ASTM D 1003
Thermal											
Heat Shrinkage	% MD	1.0	1.0	1.0	1.0	1.0	1.0				SKC Method (150°Cx30 min)
	TD	0.6	0.6	0.6	0.6	0.6	0.6				

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

SKCA-A-13

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.

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Product Information

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SH82 film is available in a range of thickness from 200ga to 750ga, and is used for high quality printing and solvent coating applications.

SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value					Test Method
General							
Nominal Thickness	Gauge (μm)	500 (125)	600 (150)	650 (165)	700 (175)	750 (188)	SKC Method
Mechanical							
Tensile Strength	Kpsi MD	25.0	24.0	23.0	22.0	21.0	ASTM D882
	TD	29.0	28.0	27.0	26.0	25.5	
Elongation At Break	% MD	195	215	235	250	255	ASTM D882
	TD	140	145	150	150	150	
Surface							
Coefficient of Friction	μk (Kinetic)	0.39	0.39	0.39	0.39	0.39	ASTM D1894
	μs (Static)	0.43	0.43	0.43	0.43	0.43	
Surface Tension	Dyne Chemical	36	36	36	36	36	ASTM D 2578
Optical							
Haze	%	1.60	1.70	1.80	2.10	2.70	ASTM D1003
Light Transmission	%	90.0	89.9	89.5	89.5	88.9	ASTM D1003
Gloss	%	185	180	180	180	175	ASTM D523 ASTM D 1003
Thermal							
Heat Shrinkage	% MD	1.0	0.9	0.9	0.9	0.9	SKC Method (150°Cx30 min)
	TD	0.6	0.5	0.5	0.5	0.5	

* Unit Correlation : N/mm² = Kg/mm² x 9.8
Kg/mm² = Kpi / 1.4223

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SH82 (200ga)

Product Information

● Product Description

Skyrol® SH82 is an optically clear, glossy, two side chemically treated film. It provides an enhanced adhesion to various inks and adhesives. SH82 film is available in a range of thickness from 200ga to 750ga, and is used for high quality printing and solvent coating applications. SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	200 (50)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	28,500 (20) 33,000 (23)	ASTM D 882
Elongation At Break	% MD TD	165 125	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.38 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	0.90	ASTM D 1003
Light Transmission	%	90.3	ASTM D 1003
Gloss	%	190	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	1.0 0.6	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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SH82 (265ga)

Product Information

● Product Description

Skyrol® SH82 is an optically clear, glossy, two side chemically treated film. It provides an enhanced adhesion to various inks and adhesives. SH82 film is available in a range of thickness from 200ga to 750ga, and is used for high quality printing and solvent coating applications.

SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	265 (67)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	27,000 (19) 33,000 (23)	ASTM D 882
Elongation At Break	% MD TD	180 130	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.38 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	1.00	ASTM D 1003
Light Transmission	%	90.2	ASTM D 1003
Gloss	%	190	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	1.0 0.6	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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SH82 (300ga)

Product Information

● Product Description

Skyrol® SH82 is an optically clear, glossy, two side chemically treated film. It provides an enhanced adhesion to various inks and adhesives. SH82 film is available in a range of thickness from 200ga to 750ga, and is used for high quality printing and solvent coating applications.

SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	300 (75)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	26,500 (19) 32,000 (22)	ASTM D 882
Elongation At Break	% MD TD	180 130	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.39 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	1.10	ASTM D 1003
Light Transmission	%	90.2	ASTM D 1003
Gloss	%	190	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	1.0 0.6	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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SH82 (380ga)

Product Information

● Product Description

Skyrol® SH82 is an optically clear, glossy, two side chemically treated film. It provides an enhanced adhesion to various inks and adhesives. SH82 film is available in a range of thickness from 200ga to 750ga, and is used for high quality printing and solvent coating applications. SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	380 (96.5)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	25,500 (18) 30,000 (21)	ASTM D 882
Elongation At Break	% MD TD	185 140	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.39 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	1.30	ASTM D 1003
Light Transmission	%	90.1	ASTM D 1003
Gloss	%	190	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	1.0 0.6	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

SKCA-A-13

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SH82 (400ga)

Product Information

● Product Description

Skyrol® SH82 is an optically clear, glossy, two side chemically treated film. It provides an enhanced adhesion to various inks and adhesives. SH82 film is available in a range of thickness from 200ga to 750ga, and is used for high quality printing and solvent coating applications.

SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	400 (100)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	25,500 (18) 30,000 (21)	ASTM D 882
Elongation At Break	% MD TD	185 140	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.39 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	1.40	ASTM D 1003
Light Transmission	%	90.1	ASTM D 1003
Gloss	%	190	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	1.0 0.6	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

SKCA-A-13

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SH82 (460ga)

Product Information

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Skyrol® SH82 is an optically clear, glossy, two side chemically treated film. It provides an enhanced adhesion to various inks and adhesives. SH82 film is available in a range of thickness from 200ga to 750ga, and is used for high quality printing and solvent coating applications.

SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	460 (116.8)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	25,000 (18) 29,000 (20)	ASTM D 882
Elongation At Break	% MD TD	190 140	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.39 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	1.50	ASTM D 1003
Light Transmission	%	90.0	ASTM D 1003
Gloss	%	187	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	1.0 0.6	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

SKCA-A-13

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SH82 (500ga)

Product Information

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Skyrol® SH82 is an optically clear, glossy, two side chemically treated film. It provides an enhanced adhesion to various inks and adhesives. SH82 film is available in a range of thickness from 200ga to 750ga, and is used for high quality printing and solvent coating applications.

SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	500 (125)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	25,000 (18) 29,000 (20)	ASTM D 882
Elongation At Break	% MD TD	195 140	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.39 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	1.60	ASTM D 1003
Light Transmission	%	90.0	ASTM D 1003
Gloss	%	185	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	1.0 0.6	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

SKCA-A-13

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SH82 (600ga)

Product Information

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SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	600 (150)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	24,000 (17) 28,000 (20)	ASTM D 882
Elongation At Break	% MD TD	215 145	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.39 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	1.70	ASTM D 1003
Light Transmission	%	89.9	ASTM D 1003
Gloss	%	180	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	0.9 0.5	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

SKCA-A-13

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SH82 (650ga)

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● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	650 (165)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	23,000 (16) 27,000 (19)	ASTM D 882
Elongation At Break	% MD TD	235 150	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.39 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	1.80	ASTM D 1003
Light Transmission	%	89.5	ASTM D 1003
Gloss	%	180	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	0.9 0.5	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

SKCA-A-13

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SH82 (700ga)

Product Information

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SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	700 (175)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	22,000 (15) 26,000 (18)	ASTM D 882
Elongation At Break	% MD TD	250 150	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.39 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	2.10	ASTM D 1003
Light Transmission	%	89.5	ASTM D 1003
Gloss	%	180	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	0.9 0.5	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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SH82 (750ga)

Product Information

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SH82 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

● Typical Properties

Property	Unit	Value	Test Method
General			
Nominal Thickness	(Gauge) µm	750 (188)	SKC Method
Mechanical			
Tensile Strength	psi MD (Kg/mm ²) TD	21,000 (15) 25,500 (18)	ASTM D 882
Elongation At Break	% MD TD	255 150	ASTM D 882
Surface			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.39 0.43	ASTM D1894
Surface Tension	Dyne Chemical	36	ASTM D 2578
Optical			
Haze	%	2.70	ASTM D 1003
Light Transmission	%	88.9	ASTM D 1003
Gloss	%	175	ASTM D 523
Thermal			
Heat Shrinkage	% MD TD	0.9 0.5	SKC Method (150°Cx30 min)

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

SKCA-A-13

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