



# Skyrol® Polyester Film



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## SH72S

### Product Information

#### ● Product Description

Skyrol® SH72S is an optically clear, two side slip treated polyester film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH72S film is available in a thickness of 200ga and 700ga. SH72S film is approved for archiving applications which include the encapsulation of paper items in accordance with the Library of Congress Specification #500-500 07/24/02.

#### ● Typical Properties

Property	Unit	Value								Test Method	
<b>General</b>											
Nominal Thickness	Gauge ( μm )	200 (50)	300 (75)	380 (96.5)	400 (100)	500 (125)	600 (150)	700 (175)			SKC Method
<b>Mechanical</b>											
Tensile Strength	Kpsi	MD 30.5	26.0	25.0	25.0	23.0	22.0	21.0			ASTM D882
Elongation At Break	%	MD 160	185	190	190	210	230	250			ASTM D882
		TD 130	130	140	140	140	150	160			
<b>Surface</b>											
Coefficient of Friction	μk (Kinetic)	0.38	0.35	0.34	0.34	0.34	0.34	0.34			ASTM D1894
	μs (Static)	0.45	0.42	0.41	0.41	0.41	0.41	0.41			
Surface Tension	Dyne Slip	50	50	50	50	50	50	50			ASTM D 2578
	Plain	45	45	45	45	45	45	45			
<b>Optical</b>											
Haze	%	0.90	1.00	1.30	1.30	1.70	2.10	2.40			ASTM D1003
Light Transmission	%	89.5	90.0	90.0	90.0	90.0	88.9	88.9			ASTM D1003
Gloss	%	190	190	190	190	190	188.0	185.0			ASTM D523
<b>Thermal</b>											
Heat Shrinkage	%	MD 1.2	1.0	0.9	0.9	0.9	0.9	0.9			SKC Method ( 150°Cx30 min )
		TD 0.6	0.6	0.6	0.6	0.6	0.6	0.5			

\* Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> x 9.8  
Kg/mm<sup>2</sup> = Kpi / 1.4223

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## SH72S (200ga)

## Product Information

### ● Product Description

Skyrol® SH72S is an optically clear, two side slip treated polyester film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH72S film is available in a thickness of 200ga and 700ga. SH72S film is approved for archiving applications which include the encapsulation of paper items in accordance with the Library of Congress Specification #500-500 07/24/02.

### ● Typical Properties

Property	Unit	Value	Test Method
<b>General</b>			
Nominal Thickness	(Gauge) µm	<b>200</b> <b>( 50 )</b>	SKC Method
<b>Mechanical</b>			
Tensile Strength	psi MD (Kg/mm <sup>2</sup> ) TD	30,500 (21) 32,000 (22)	ASTM D 882
Elongation At Break	% MD TD	160 130	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.38 0.45	ASTM D1894
Surface Tension	Dyne Slip Plain	50 45	ASTM D 2578
<b>Optical</b>			
Haze	%	0.90	ASTM D 1003
Light Transmission	%	89.5	ASTM D 1003
Gloss	%	190	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	% MD TD	1.2 0.6	SKC Method ( 150°Cx30 min )

Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> × 9.8  
Kg/mm<sup>2</sup> = psi / 1422.3

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Note: Please read the Material Safety Data Sheet(MSDS) carefully prior to use.



## SH72S (300ga)

## Product Information

### ● Product Description

Skyrol® SH72S is an optically clear, two side slip treated polyester film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH72S film is available in a thickness of 200ga and 700ga. SH72S film is approved for archiving applications which include the encapsulation of paper items in accordance with the Library of Congress Specification #500-500 07/24/02.

### ● Typical Properties

Property	Unit	Value	Test Method
<b>General</b>			
Nominal Thickness	(Gauge) µm	<b>300</b> <b>( 75 )</b>	SKC Method
<b>Mechanical</b>			
Tensile Strength	psi      MD (Kg/mm <sup>2</sup> )    TD	26,000 (18) 31,000 (22)	ASTM D 882
Elongation At Break	%      MD TD	185 130	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	µk (Kinetic)	0.35	ASTM D1894
	µs (Static)	0.42	
Surface Tension	Dyne    Slip	50	ASTM D 2578
	Plain	45	
<b>Optical</b>			
Haze	%	1.00	ASTM D 1003
Light Transmission	%	90.0	ASTM D 1003
Gloss	%	190	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	%      MD TD	1.0	SKC Method ( 150°Cx30 min )
		0.6	

Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> × 9.8  
Kg/mm<sup>2</sup> = psi / 1422.3

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## SH72S (380ga)

## Product Information

### ● Product Description

Skyrol® SH72S is an optically clear, two side slip treated polyester film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH72S film is available in a thickness of 200ga and 700ga. SH72S film is approved for archiving applications which include the encapsulation of paper items in accordance with the Library of Congress Specification #500-500 07/24/02.

### ● Typical Properties

Property	Unit	Value	Test Method
<b>General</b>			
Nominal Thickness	(Gauge) µm	<b>380</b> ( 96.5 )	SKC Method
<b>Mechanical</b>			
Tensile Strength	psi MD (Kg/mm <sup>2</sup> ) TD	25,000 (17) 30,000 (21)	ASTM D 882
Elongation At Break	% MD TD	190 140	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.34 0.41	ASTM D1894
Surface Tension	Dyne Slip Plain	50 45	ASTM D 2578
<b>Optical</b>			
Haze	%	1.30	ASTM D 1003
Light Transmission	%	90.0	ASTM D 1003
Gloss	%	190	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	% MD TD	0.9 0.6	SKC Method ( 150°Cx30 min )

Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> × 9.8  
Kg/mm<sup>2</sup> = psi / 1422.3

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## SH72S (400ga)

## Product Information

### ● Product Description

Skyrol® SH72S is an optically clear, two side slip treated polyester film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH72S film is available in a thickness of 200ga and 700ga. SH72S film is approved for archiving applications which include the encapsulation of paper items in accordance with the Library of Congress Specification #500-500 07/24/02.

### ● Typical Properties

Property	Unit	Value	Test Method
<b>General</b>			
Nominal Thickness	(Gauge) µm	<b>400</b> <b>( 100 )</b>	SKC Method
<b>Mechanical</b>			
Tensile Strength	psi MD (Kg/mm <sup>2</sup> ) TD	25,000 (17) 30,000 (21)	ASTM D 882
Elongation At Break	% MD TD	190 140	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.34 0.41	ASTM D1894
Surface Tension	Dyne Slip Plain	50 45	ASTM D 2578
<b>Optical</b>			
Haze	%	1.30	ASTM D 1003
Light Transmission	%	90.0	ASTM D 1003
Gloss	%	190	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	% MD TD	0.9 0.6	SKC Method ( 150°Cx30 min )

Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> × 9.8  
Kg/mm<sup>2</sup> = psi / 1422.3

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## SH72S (500ga)

## Product Information

### ● Product Description

Skyrol® SH72S is an optically clear, two side slip treated polyester film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH72S film is available in a thickness of 200ga and 700ga. SH72S film is approved for archiving applications which include the encapsulation of paper items in accordance with the Library of Congress Specification #500-500 07/24/02.

### ● Typical Properties

Property	Unit	Value	Test Method
<b>General</b>			
Nominal Thickness	(Gauge) µm	<b>500</b> <b>( 125 )</b>	SKC Method
<b>Mechanical</b>			
Tensile Strength	psi MD (Kg/mm <sup>2</sup> ) TD	23,000 (16) 28,000 (20)	ASTM D 882
Elongation At Break	% MD TD	210 140	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.34 0.41	ASTM D1894
Surface Tension	Dyne Slip Plain	50 45	ASTM D 2578
<b>Optical</b>			
Haze	%	1.70	ASTM D 1003
Light Transmission	%	90.0	ASTM D 1003
Gloss	%	190	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	% MD TD	0.9 0.6	SKC Method ( 150°Cx30 min )

Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> × 9.8  
Kg/mm<sup>2</sup> = psi / 1422.3

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## SH72S (600ga)

## Product Information

### ● Product Description

Skyrol® SH72S is an optically clear, two side slip treated polyester film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH72S film is available in a thickness of 200ga and 700ga. SH72S film is approved for archiving applications which include the encapsulation of paper items in accordance with the Library of Congress Specification #500-500 07/24/02.

### ● Typical Properties

Property	Unit	Value	Test Method
<b>General</b>			
Nominal Thickness	(Gauge) µm	<b>600</b> <b>( 150 )</b>	SKC Method
<b>Mechanical</b>			
Tensile Strength	psi MD (Kg/mm <sup>2</sup> ) TD	22,000 (15) 27,000 (19)	ASTM D 882
Elongation At Break	% MD TD	230 150	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.34 0.41	ASTM D1894
Surface Tension	Dyne Slip Plain	50 45	ASTM D 2578
<b>Optical</b>			
Haze	%	2.10	ASTM D 1003
Light Transmission	%	88.9	ASTM D 1003
Gloss	%	189	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	% MD TD	0.9 0.6	SKC Method ( 150°Cx30 min )

Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> × 9.8  
Kg/mm<sup>2</sup> = psi / 1422.3

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## SH72S (700ga)

## Product Information

### ● Product Description

Skyrol® SH72S is an optically clear, two side slip treated polyester film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH72S film is available in a thickness of 200ga and 700ga. SH72S film is approved for archiving applications which include the encapsulation of paper items in accordance with the Library of Congress Specification #500-500 07/24/02.

### ● Typical Properties

Property	Unit	Value	Test Method
<b>General</b>			
Nominal Thickness	(Gauge) µm	<b>700</b> <b>( 175 )</b>	SKC Method
<b>Mechanical</b>			
Tensile Strength	psi MD (Kg/mm <sup>2</sup> ) TD	21,000 (15) 26,000 (18)	ASTM D 882
Elongation At Break	% MD TD	250 160	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.34 0.41	ASTM D1894
Surface Tension	Dyne Slip Plain	50 45	ASTM D 2578
<b>Optical</b>			
Haze	%	2.40	ASTM D 1003
Light Transmission	%	88.9	ASTM D 1003
Gloss	%	185	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	% MD TD	0.9 0.5	SKC Method ( 150°Cx30 min )

Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> × 9.8  
Kg/mm<sup>2</sup> = psi / 1422.3

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