



# SH18S

## Product Information

● **Product Description**

Skyrol® SH18S is an optically clear, one side slip treated film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH18S film is available in a thickness of 92ga and 142ga. SH18S 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 )	92 (23)	142 (36)							SKC Method
<b>Mechanical</b>										
Tensile Strength	Kpsi	MD	32.0	31.0						ASTM D882
		TD	35.0	33.0						
Elongation At Break	%	MD	160	150						ASTM D882
		TD	130	130						
<b>Surface</b>										
Coefficient of Friction	μk (Kinetic) μs (Static)		0.38	0.36						ASTM D1894
			0.45	0.42						
Surface Tension	Dyne Slip Plain		50	50						ASTM D 2578
			45	45						
<b>Optical</b>										
Haze	%		0.90	1.10						ASTM D1003
Light Transmission	%		89.5	89.3						ASTM D1003
Gloss	%		189	189						ASTM D523
<b>Thermal</b>										
Heat Shrinkage	%	MD	1.3	1.1						SKC Method ( 150°Cx30 min )
		TD	0.5	0.0						
	%	MD	2.7	2.6						SKC Method ( 190°Cx20 min )
		TD	1.8	0.8						

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



## SH18S (92ga)

## Product Information

### ● Product Description

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### ● Typical Properties

Property	Unit	Value	Test Method
<b>General</b>			
Nominal Thickness	(Gauge) µm	<b>92</b> <b>( 23 )</b>	SKC Method
<b>Mechanical</b>			
Tensile Strength	psi MD (Kg/mm <sup>2</sup> ) TD	32,000 (22) 36,000 (25)	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	%	189	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	% MD TD	1.3 0.5	SKC Method ( 150°Cx30 min )
	MD TD	2.7 1.8	SKC Method ( 190°Cx20 min )

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

SKCA-A-11

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.



## SH18S (142ga)

## Product Information

### ● Product Description

Skyrol® SH18S is an optically clear, one side slip treated film, with high clarity, high gloss, good dimensional stability and excellent handling characteristics. SH18S film is available in a thickness of 92ga and 142ga. SH18S 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>142</b> <b>( 36 )</b>	SKC Method
<b>Mechanical</b>			
Tensile Strength	psi MD (Kg/mm <sup>2</sup> ) TD	31,000 (22) 33,000 (23)	ASTM D 882
Elongation At Break	% MD TD	150 130	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	µk (Kinetic) µs (Static)	0.36 0.42	ASTM D1894
Surface Tension	Dyne Slip Plain	50 45	ASTM D 2578
<b>Optical</b>			
Haze	%	1.10	ASTM D 1003
Light Transmission	%	89.3	ASTM D 1003
Gloss	%	189	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	% MD TD	1.1 0.0	SKC Method ( 150°Cx30 min )
	MD TD	2.6 0.8	SKC Method ( 190°Cx20 min )

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

SKCA-A-11

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.