



## **SW84G**

### *Product Information*

#### ● **Product Description**

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

#### ● **Typical Properties**

<b>Property</b>	<b>Unit</b>	<b>Value</b>						<b>Test Method</b>
<b>General</b>								
Nominal Thickness	Gauge ( $\mu\text{m}$ )	<b>92</b> (23)	<b>142</b> (36)	<b>200</b> (50)	<b>300</b> (75)			
Density	g/cm <sup>3</sup>	1.5	1.5	1.5	1.5			SKC Method
<b>Mechanical</b>								
Tensile Strength	Kpsi	MD TD	23.5 30.0	23.0 29.5	22.5 29.0	22.0 28.0		ASTM D882
Elongation At Break	%	MD TD	130 75	130 75	130 80	130 90		ASTM D882
<b>Surface</b>								
Coefficient of Friction	$\mu\text{k}$ (Kinetic) $\mu\text{s}$ (Static)	0.30 0.39	0.30 0.39	0.30 0.39	0.30 0.38			ASTM D1894
<b>Optical</b>								
Whiteness	%	121 30 60	121 25 60	121 16 60	121 12 60			ASTM E313 ASTM D1003 ASTM D523 ASTM D1003
<b>Thermal</b>								
Heat Shrinkage	%	MD TD	1.5 0.6	1.5 0.6	1.5 0.6	1.5 0.4		SKC Method ( 150°C x 30 min )

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

Kg/mm<sup>2</sup> = 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.

**Unit Correlation** : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> x 9.8  
Material Safety Data Sheet (MSDS) carefully prior to use.

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#### ● **Typical Properties**

<b>Property</b>	<b>Unit</b>	<b>Value</b>								<b>Test Method</b>
<b>General</b>										
Nominal Thickness	Gauge ( $\mu\text{m}$ )	<b>400 (100)</b>	<b>500 (125)</b>	<b>600 (150)</b>	<b>700 (175)</b>	<b>750 (188)</b>	<b>945 (240)</b>	<b>1000 (250)</b>		SKC Method
Density	g/cm <sup>3</sup>	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
<b>Mechanical</b>										
Tensile Strength	Kpsi	MD TD	22.0 27.0	22.0 26.0	21.0 24.0	21.0 23.0	20.0 22.0	19.0 21.0	18.5 20.5	ASTM D882
Elongation At Break	%	MD TD	170 115	175 115	175 115	175 115	175 115	175 115	175 115	ASTM D882
<b>Surface</b>										
Coefficient of Friction	$\mu\text{k}$ (Kinetic) $\mu\text{s}$ (Static)	0.30 0.38	0.30 0.38	0.30 0.38	0.30 0.38	0.30 0.37	0.30 0.37	0.30 0.37		ASTM D1894
<b>Optical</b>										
Whiteness	%	117	117	116	115	115	115	115		ASTM E313
Light Transmission		10	8	7	4	4	3	3		ASTM D1003
Gloss	%	60	60	60	60	60	55	55		ASTM D523 ASTM D1003
<b>Thermal</b>										
Heat Shrinkage	%	MD TD	1.4 0.4	1.2 0.4	1.1 0.4	1.1 0.4	1.1 0.3	1.1 0.3		SKC Method ( 150°Cx30 min )

\* 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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**Unit Correlation:** Numerical values in Kg/mm<sup>2</sup> can be converted to N/mm<sup>2</sup> by multiplying by 9.8. Read the Safety Data Sheet (MSDS) carefully prior to use.

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## SW84G (92ga)

### Product Information

#### ● Product Description

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

#### ● Typical Properties

Property	Unit	Value		Test Method
<b>General</b>				
Nominal Thickness	(Gauge) μm	<b>92</b> (23)		SKC Method
Density	g/cm <sup>3</sup>	1.5		
<b>Mechanical</b>				
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD	23,500 (17) 30,000 (21)	ASTM D 882
Elongation At Break	%	MD TD	130 75	ASTM D 882
<b>Surface</b>				
Coefficient of Friction	μk (Kinetic) μs (Static)		0.30 0.39	ASTM D1894
<b>Optical</b>				
Whiteness			121	ASTM E 313
Light Transmission	%		30	ASTM D 1003
Gloss	%		60	ASTM D 523
<b>Thermal</b>				
Heat Shrinkage	%	MD TD	1.5 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

SKCA-A-13

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## **SW84G (142ga)**

### *Product Information*

#### ● **Product Description**

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

#### ● **Typical Properties**

<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Test Method</b>
<b>General</b>			
Nominal Thickness	(Gauge) μm	<b>142</b> (36)	SKC Method
Density	g/cm <sup>3</sup>	1.5	
<b>Mechanical</b>			
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD 23,000 (16) 29,500 (21)	ASTM D 882
Elongation At Break	%	MD TD 130 75	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	μk (Kinetic) μs (Static)	0.30 0.39	ASTM D1894
<b>Optical</b>			
Whiteness		121	ASTM E 313
Light Transmission	%	25	ASTM D 1003
Gloss	%	60	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	%	MD TD 1.5 0.6	SKC Method ( 150°Cx30 min )

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

SKCA-A-13

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## SW84G (200ga)

## Product Information

### ● Product Description

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

### ● Typical Properties

Property	Unit	Value		Test Method
<b>General</b>				
Nominal Thickness	(Gauge) μm	<b>200</b> (50)		SKC Method
Density	g/cm <sup>3</sup>	1.5		
<b>Mechanical</b>				
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD	22,500 (16) 29,000 (20)	ASTM D 882
Elongation At Break	%	MD TD	130 80	ASTM D 882
<b>Surface</b>				
Coefficient of Friction	μk (Kinetic) μs (Static)		0.30 0.39	ASTM D1894
<b>Optical</b>				
Whiteness			121	ASTM E 313
Light Transmission	%		16	ASTM D 1003
Gloss	%		60	ASTM D 523
<b>Thermal</b>				
Heat Shrinkage	%	MD TD	1.5 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

SKCA-A-13

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## SW84G (300ga)

## Product Information

### ● Product Description

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

### ● Typical Properties

Property	Unit	Value		Test Method
<b>General</b>				
Nominal Thickness	(Gauge) μm	<b>300</b> (75)		SKC Method
Density	g/cm <sup>3</sup>	1.5		
<b>Mechanical</b>				
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD	22,000 (16) 28,000 (20)	ASTM D 882
Elongation At Break	%	MD TD	130 90	ASTM D 882
<b>Surface</b>				
Coefficient of Friction	μk (Kinetic) μs (Static)		0.30 0.38	ASTM D1894
<b>Optical</b>				
Whiteness			121	ASTM E 313
Light Transmission	%		12	ASTM D 1003
Gloss	%		60	ASTM D 523
<b>Thermal</b>				
Heat Shrinkage	%	MD TD	1.5 0.4	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

SKCA-A-13

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## **SW84G (400ga)**

## *Product Information*

### ● **Product Description**

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

### ● **Typical Properties**

<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Test Method</b>
<b>General</b>			
Nominal Thickness	(Gauge) μm	<b>400</b> (100)	SKC Method
Density	g/cm <sup>3</sup>	1.5	
<b>Mechanical</b>			
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD 22,000 (16) 27,000 (19)	ASTM D 882
Elongation At Break	%	MD TD 170 115	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	μk (Kinetic) μs (Static)	0.30 0.38	ASTM D1894
<b>Optical</b>			
Whiteness		117	ASTM E 313
Light Transmission	%	10	ASTM D 1003
Gloss	%	60	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	%	MD TD 1.4 0.4	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

SKCA-A-13

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## **SW84G (500ga)**

### *Product Information*

#### ● **Product Description**

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

#### ● **Typical Properties**

<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Test Method</b>
<b>General</b>			
Nominal Thickness	(Gauge) μm	<b>500</b> (125)	SKC Method
Density	g/cm <sup>3</sup>	1.5	
<b>Mechanical</b>			
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD 22,000 (16) 26,000 (18)	ASTM D 882
Elongation At Break	%	MD TD 175 115	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	μk (Kinetic) μs (Static)	0.30 0.38	ASTM D1894
<b>Optical</b>			
Whiteness		117	ASTM E 313
Light Transmission	%	8	ASTM D 1003
Gloss	%	60	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	%	MD TD 1.2 0.4	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

SKCA-A-13

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## **SW84G (600ga)**

### *Product Information*

#### ● **Product Description**

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

#### ● **Typical Properties**

<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Test Method</b>
<b>General</b>			
Nominal Thickness	(Gauge) μm	<b>600</b> (150)	SKC Method
Density	g/cm <sup>3</sup>	1.5	
<b>Mechanical</b>			
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD 21,000 (15) 24,000 (17)	ASTM D 882
Elongation At Break	%	MD TD 175 115	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	μk (Kinetic) μs (Static)	0.30 0.38	ASTM D1894
<b>Optical</b>			
Whiteness		116	ASTM E 313
Light Transmission	%	7	ASTM D 1003
Gloss	%	60	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	%	MD TD 1.1 0.4	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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## **SW84G (700ga)**

### **Product Information**

#### **● Product Description**

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

#### **● Typical Properties**

<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Test Method</b>
<b>General</b>			
Nominal Thickness	(Gauge) μm	<b>700</b> (175)	SKC Method
Density	g/cm <sup>3</sup>	1.5	
<b>Mechanical</b>			
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD 21,000 (15) 23,000 (16)	ASTM D 882
Elongation At Break	%	MD TD 175 115	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	μ <sub>k</sub> (Kinetic) μ <sub>s</sub> (Static)	0.30 0.38	ASTM D1894
<b>Optical</b>			
Whiteness		115	ASTM E 313
Light Transmission	%	4	ASTM D 1003
Gloss	%	60	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	%	MD TD 1.1 0.4	SKC Method ( 150°Cx30 min )

Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> x 9.8

Kg/mm<sup>2</sup> = psi / 1422.3

SKCA-A-13

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## SW84G (750ga)

### Product Information

#### ● Product Description

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

#### ● Typical Properties

Property	Unit	Value		Test Method
<b>General</b>				
Nominal Thickness	(Gauge) μm	<b>750</b> (188)		SKC Method
Density	g/cm <sup>3</sup>	1.5		
<b>Mechanical</b>				
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD	20,000 (14) 22,000 (15)	ASTM D 882
Elongation At Break	%	MD TD	175 115	ASTM D 882
<b>Surface</b>				
Coefficient of Friction	μk (Kinetic) μs (Static)		0.30 0.37	ASTM D1894
<b>Optical</b>				
Whiteness			115	ASTM E 313
Light Transmission	%		4	ASTM D 1003
Gloss	%		60	ASTM D 523
<b>Thermal</b>				
Heat Shrinkage	%	MD TD	1.1 0.3	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

SKCA-A-13

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## SW84G (945ga)

### Product Information

#### ● Product Description

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

#### ● Typical Properties

Property	Unit	Value		Test Method
<b>General</b>				
Nominal Thickness	(Gauge) μm	<b>945</b> (240)		SKC Method
Density	g/cm <sup>3</sup>	1.5		
<b>Mechanical</b>				
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD	19,000 (13) 21,000 (15)	ASTM D 882
Elongation At Break	%	MD TD	175 115	ASTM D 882
<b>Surface</b>				
Coefficient of Friction	μk (Kinetic) μs (Static)		0.30 0.37	ASTM D1894
<b>Optical</b>				
Whiteness			115	ASTM E 313
Light Transmission	%		3	ASTM D 1003
Gloss	%		60	ASTM D 523
<b>Thermal</b>				
Heat Shrinkage	%	MD TD	1.1 0.3	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

SKCA-A-13

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# **SW84G (1000ga)**

## *Product Information*

### **● Product Description**

Skyrol® **SW84G** white opaque polyester film with an adhesion promoting chemical treatment on both sides. It provides enhanced adhesion to coatings, inks and adhesives. **SW84G** is available in a wide range of thickness from 92ga to 1000ga. **SW84G** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f).

### **● Typical Properties**

<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Test Method</b>
<b>General</b>			
Nominal Thickness	(Gauge) μm	<b>1000</b> (250)	SKC Method
Density	g/cm <sup>3</sup>	1.5	
<b>Mechanical</b>			
Tensile Strength	psi (Kg/mm <sup>2</sup> )	MD TD 18,500 (13) 20,500 (14)	ASTM D 882
Elongation At Break	%	MD TD 175 115	ASTM D 882
<b>Surface</b>			
Coefficient of Friction	μk (Kinetic) μs (Static)	0.30 0.37	ASTM D1894
<b>Optical</b>			
Whiteness		115	ASTM E 313
Light Transmission	%	3	ASTM D 1003
Gloss	%	60	ASTM D 523
<b>Thermal</b>			
Heat Shrinkage	%	MD TD 1.1 0.3	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

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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