SKC

Skyrol® Polyester Film

SH22

Product Information

● Product Description

*Skyrol® **SH22** is an optically clear film with an adhesion promoting chemical treatment on both sides. It provides an enhanced adhesion to various inks and adhesives. **SH22** film is available in a range of thickness from 48ga to 142ga, and is used for label, solar control, printing and high grade packaging applications. **SH22** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).*

● Typical Properties

Property	Unit		Value								Test Method
General											
Nominal Thickness	Gauge (㎛)		**48 (12)**	**60 (15)**	**75 (19)**	**92 (23)**	**142 (36)**				SKC Method
Mechanical											
Tensile Strength	Kpsi	MD	37.0	36.0	35.5	35.0	33.0				ASTM D882
		TD	37.5	37.0	36.0	36.5	34.0				
Elongation At Break	%	MD	150	150	150	155	150				ASTM D882
		TD	125	125	125	125	130				
Surface											
Coefficient of Friction	μk (Kinetic)		0.40	0.40	0.40	0.38	0.37				ASTM D1894
	μs (Static)		0.48	0.47	0.46	0.46	0.45				
Surface Tension	Dyne		37	37	37	37	37				ASTM D 2578
Optical											
Haze	%		0.80	0.83	0.85	0.90	1.10				ASTM D1003
Light Transmission	%		90.5	90.5	90.3	90.2	90.2				ASTM D1003
Gloss	%		180	185	185	185	185				ASTM D523
Thermal											
Heat Shrinkage	%	MD	1.5	1.5	1.5	1.4	1.4				SKC Method
		TD	0.2	0.2	0.2	0.2	0.2				(150°C×30 min)

* Unit Correlation : N/mm^2 = Kg/mm^2 x 9.8
Kg/mm^2 = Kpi / 1.4223

SKCA-F-10

SH22 (48ga)

Product Information

● Product Description

*Skyrol® **SH22** is an optically clear film with an adhesion promoting chemical treatment on both sides. It provides an enhanced adhesion to various inks and adhesives.*

***SH22** film is available in a range of thickness 48ga to 142ga, and is used for label, solar control, printing and high grade packaging applications.*

***SH22** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).*

● Typical Properties

Property	Unit		Value	Test Method
General				
Nominal Thickness	(Gauge) μm		**48** **(12)**	SKC Method
Mechanical				
Tensile Strength	psi (Kg/mm^2)	MD TD	37,000 (26) 37,500 (26)	ASTM D 882
Elongation At Break	%	MD TD	150 125	ASTM D 882
Surface				
Coefficient of Friction	μk (Kinetic) μs (Static)		0.40 0.48	ASTM D1894
Surface Tension	Dyne		37	ASTM D 2578
Optical				
Haze	%		0.80	ASTM D 1003
Light Transmission	%		90.5	ASTM D 1003
Gloss	%		180	ASTM D 523
Thermal				
Heat Shrinkage	%	MD TD	1.5 0.2	SKC Method (150°C×30 min)

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

Kg/mm^2 = psi / 1422.3

SKCA-F-10

SH22 (60ga) Product Information

● Product Description

*Skyrol® **SH22** is an optically clear film with an adhesion promoting chemical treatment on both sides. It provides an enhanced adhesion to various inks and adhesives.*

***SH22** film is available in a range of thickness 48ga to 142ga, and is used for label, solar control, printing and high grade packaging applications.*

***SH22** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).*

● Typical Properties

Property	Unit		Value	Test Method
General				
Nominal Thickness	(Gauge) μm		**60** **(15)**	SKC Method
Mechanical				
Tensile Strength	psi (Kg/mm^2)	MD TD	36,000 (25) 37,000 (26)	ASTM D 882
Elongation At Break	%	MD TD	150 125	ASTM D 882
Surface				
Coefficient of Friction	μk (Kinetic) μs (Static)		0.40 0.47	ASTM D1894
Surface Tension	Dyne		37	ASTM D 2578
Optical				
Haze	%		0.83	ASTM D 1003
Light Transmission	%		90.5	ASTM D 1003
Gloss	%		185	ASTM D 523
Thermal				
Heat Shrinkage	%	MD TD	1.5 0.2	SKC Method (150°C×30 min)

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

Kg/mm^2 = psi / 1422.3

SKCA-F-10

SH22 (75ga)

Product Information

● Product Description

*Skyrol® **SH22** is an optically clear film with an adhesion promoting chemical treatment on both sides. It provides an enhanced adhesion to various inks and adhesives.*

***SH22** film is available in a range of thickness 48ga to 142ga, and is used for label, solar control, printing and high grade packaging applications.*

***SH22** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).*

● Typical Properties

Property	Unit		Value	Test Method
General				
Nominal Thickness	(Gauge) μm		**75** **(19)**	SKC Method
Mechanical				
Tensile Strength	psi (Kg/mm^2)	MD	35,500 (25)	ASTM D 882
		TD	36,000 (25)	
Elongation At Break	%	MD	150	ASTM D 882
		TD	125	
Surface				
Coefficient of Friction	μk (Kinetic)		0.40	ASTM D1894
	μs (Static)		0.46	
Surface Tension	Dyne		37	ASTM D 2578
Optical				
Haze	%		0.85	ASTM D 1003
Light Transmission	%		90.3	ASTM D 1003
Gloss	%		185	ASTM D 523
Thermal				
Heat Shrinkage	%	MD	1.5	SKC Method
		TD	0.2	(150°C×30 min)

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

Kg/mm^2 = psi / 1422.3

SKCA-F-10

SH22 (92ga) Product Information

● Product Description

*Skyrol® **SH22** is an optically clear film with an adhesion promoting chemical treatment on both sides. It provides an enhanced adhesion to various inks and adhesives.*

***SH22** film is available in a range of thickness 48ga to 142ga, and is used for label, solar control, printing and high grade packaging applications.*

***SH22** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).*

● Typical Properties

Property	Unit		Value	Test Method
General				
Nominal Thickness	(Gauge) μm		**92** **(23)**	SKC Method
Mechanical				
Tensile Strength	psi (Kg/mm^2)	MD TD	35,000 (25) 36,500 (26)	ASTM D 882
Tensile Modulus	Kpsi (Kg/mm2)	MD TD	485 (341) 491 (345)	ASTM D 882
Elongation At Break	%	MD TD	155 125	ASTM D 882
Surface				
Coefficient of Friction	μk (Kinetic) μs (Static)		0.38 0.46	ASTM D1894
Surface Tension	Dyne		37	ASTM D 2578
Optical				
Haze	%		0.90	ASTM D 1003
Light Transmission	%		90.2	ASTM D 1003
Gloss	%		185	ASTM D 523
Thermal				
Heat Shrinkage	%	MD TD	1.4 0.2	SKC Method (150°C×30 min)

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

Kg/mm^2 = psi / 1422.3

SH22 (142ga) Product Information

● Product Description

*Skyrol® **SH22** is an optically clear film with an adhesion promoting chemical treatment on both sides. It provides an enhanced adhesion to various inks and adhesives.*

***SH22** film is available in a range of thickness 48ga to 142ga, and is used for label, solar control, printing and high grade packaging applications.*

***SH22** film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).*

● Typical Properties

Property	Unit		Value	Test Method
General				
Nominal Thickness	(Gauge) μm		**142** **(36)**	SKC Method
Mechanical				
Tensile Strength	psi (Kg/mm^2)	MD TD	33,000 (23) 34,000 (24)	ASTM D 882
Tensile Modulus	Kpsi (Kg/mm2)	MD TD	480 (337) 484 (340)	ASTM D 882
Elongation At Break	%	MD TD	150 130	ASTM D 882
Surface				
Coefficient of Friction	μk (Kinetic) μs (Static)		0.37 0.45	ASTM D1894
Surface Tension	Dyne		37	ASTM D 2578
Optical				
Haze	%		1.10	ASTM D 1003
Light Transmission	%		90.2	ASTM D 1003
Gloss	%		185	ASTM D 523
Thermal				
Heat Shrinkage	%	MD TD	1.4 0.2	SKC Method (150°C×30 min)

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

Kg/mm^2 = psi / 1422.3