



VACUUM FILMS

RANGE

Name	Description	Max. use T°C	Elongation on break	Color
SK2VF120-1	Multilayer vacuum film for manufacturing of wide and complex structures	120°C	460%	Green
SK2VF120-E1	Embossed multilayer vacuum film for manufacturing of wide and complex structures	120°C	460%	Green
SK2VF170-1	Nylon vacuum film for oven and autoclave manufacturing of wide structures	180°C	380%	Green/Pink
SK2VF170-2	Multilayer vacuum bagging film for manufacturing of wide and complex structures	177°C	405%	Blue / Yellow
SK2VF170-3	Multilayer vacuum bagging film for manufacturing of wide and complex structures	177°C	360%	Yellow
SK2VF180-1	Standard nylon vacuum bagging film	180°C	380%	Clear
SK2VF200-1	Soft nylon vacuum bagging film for autoclave and oven molding	204°C	400%	Pink/Green
SK2VF200-E1	Embossed soft nylon vacuum bagging film for autoclave and oven molding	204°C	400%	Pink/Green
SK2VF200-2	Very soft nylon vacuum bagging film for autoclave and oven molding	204°C	440%	Pink
SK2VF200-3	Tough, high temperature resistant nylon film for infusion and prepreg molding	200°C	470%	Blue
SK2VF204-1	Ultrasoft nylon vacuum bagging film for autoclave and oven molding	204°C	450%	Orange
SK2VF205-1	Nylon vacuum film for autoclave and oven applications	205°C	400%	Green
SK2VF205-2	Embossed nylon film for debulking processes	205°C	400%	Transparent
SK2VF220-1	Heat-resistant nylon film for autoclave and oven applications	220°C	380%	Blue



VACUUM FILMS

RANGE

SK2VF230-1	High temperature resistant nylon vacuum film	230°C	380%	Light blue
SK2VF246-1	High temperature resistant soft nylon vacuum film	246°C	375%	Orange
SK2VF260-1	High-elastic PTFE vacuum film	260°C	400%	Yellow
SK2VF400-1	Ultra-high temperature bagging polyimide film	400°C	85%	Amber
SK2VR145-1	Economical self-releasing multilayer vacuum bagging film	158°C	410%	Light green
SK2VR160-1	Self-releasing multilayer vacuum bagging film	160°C	445%	Green
Folding shape				
Vacuum film dimensional chart				
Resin compatibility				



TECHNICAL DATA SHEET

SK2VF120-1

Multilayer vacuum bagging film

[Back to range](#)

► DESCRIPTION

SK2VF120-1 is a tough, puncture resistant co-extrusion of nylon and polyolefin based resins vacuum film, which is designed for use in the production of polyester / vinylester resin infused components for the wind energy, marine and general composite industries.

The product can be used in the production of epoxy resins prior to testing chemical resistance with specific resin.

It is particularly interesting due to its limited sensitivity to low humidity levels which are often problematic to predominantly nylon based films as the lack of moisture can reduce flexibility. This ensures consistent yearlong performance in all workshop environments.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

Test method

Material type:	Multilayer	
Color:	Green	
Tensile strength at break:	39,3 MPa	ASTM D882
Elongation at break :	460%	ASTM D882
Tear strength:	1,5 N	ISO1683-1
Maximum use temperature:	120°C	

► SIZES OF FILMS

Thickness	Width	Length	Folding shape
75µm ± 10%	2000mm	400m	SHT
	4000mm	200m	CF
	6000mm	105m	LGT
		125m	LGT
	8000mm	80m	LGT
80µm ± 10%	10000mm	75m	LGT



TECHNICAL DATA SHEET

SK2VF120-1

Multilayer vacuum bagging film

	12000mm	75m	LGT
	16000mm	30m	LGT
		70m	LGT

Shelf life: unlimited.

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing, protected from direct sun and heat source.

► NOTE

For the roll with width 16000mm other lengths are available under request.

Folding shapes: SHT - sheeting, CF - centerfold, LFT = lay-flat tubing, LGT- lay-gusseted tubing. For more information, please read the technical information page: SK2VF_Folding shape.



TECHNICAL DATA SHEET

SK2VF120-E1

Embossed multilayer vacuum bagging film

[Back to range](#)

► DESCRIPTION

SK2VF120-E1 is a tough, puncture resistant co-extrusion of nylon and polyolefin based resins vacuum film, which is designed for use in the production of polyester / vinylester resin infused components for the wind energy, marine and general composite industries.

The product can be used in the production of epoxy resins prior to testing chemical resistance with specific resin.

It is particularly interesting due to its limited sensitivity to low humidity levels which are often problematic to predominantly nylon based films as the lack of moisture can reduce flexibility. This ensures consistent yearlong performance in all workshop environments.

SK2VF120-E1 can be embossed from one side with the «cracked ice» pattern. It allows for rapid air removal when placed under vacuum, eliminating need for separate layer of breather. The pattern has been developed to provide increased stiffness to assist in maintaining a breathable pattern. Bid width makes compacting large parts faster. For best results, place the raised side on top of a perforated release film against the laminate surface.

This product is used in various manufacturing processes of parts made of composite materials.



Pic.1 Embossing with «cracked ice» pattern



TECHNICAL DATA SHEET

SK2VF120-E1

Embossed multilayer vacuum bagging film

► TECHNICAL DATA

Test method

Material type:	Multilayer	
Color:	Green	
Tensile strength at break :	39,3 MPa	ASTM D882
Elongation at break:	460%	ASTM D882
Tear strength:	1,5 N	ISO1683-1
Maximum use temperature:	120°C	

► SIZES OF EMBOSSED FILMS

Thickness	Width	Folding shape
75µm	1400mm	SHT
	3200mm	CF
80µm	1400mm	SHT
	3200mm	CF

Shelf life: unlimited.

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing, protected from direct sun and heat source.

► NOTE

Embossing is available for film width from 140 cm until 320 cm
Folding shapes: SHT - sheeting, CF – centerfold.



TECHNICAL DATA SHEET

SK2VF170-1 Vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF170-1 is a highly flexible multilayer nylon vacuum bagging film designed for processing of advanced composite structures and laminated security glass. This film is ideal for use in both oven and autoclave cures, up to a maximum recommended temperature of 170°C. Key benefits of this film are its high elongation and flexibility.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

Test method

Material type:	Multilayer	
Color:	Green / Pink	
Elongation at break:	380 %	ASTM D882
Tensile strength at break:	50 MPa	ASTM D882
Maximum use temperature:	180°C	

► SIZE

Thickness	Width	Folding shape
50µm ± 10%	100mm	LFT- sheet
	200mm	
	300mm	
	600mm	
	900mm	
	1200mm	
	1500mm	
	2200mm	

Shelf life: unlimited



TECHNICAL DATA SHEET

SK2VF170-1
Vacuum film

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► **NOTE**

Film available in thickness from 38 µm to 75 µm or thicker for glass lamination on demand

Film of bigger sizes are produced under order in the preferred shape. All the other shapes, like CF-sheet can be produced on demand.



TECHNICAL DATA SHEET

SK2VF170-2

Multilayer vacuum bagging film

[Back to range](#)

► DESCRIPTION

SK2VF170-2 vacuum bagging film is a tough, high temperature resistant co extruded nylon-based material which is designed for use in the production of advanced composite structures such as wind turbine blades and nacelles, boat hulls and decks, plus other industrial structures. The film is ideal for use in both resin infusion and prepreg moulding applications and is resistant to all commonly used resin systems.

This film is not suitable for use in autoclave processing of composites.

► TECHNICAL DATA

		Test method
Material type:	Multilayer	
Color:	Blue /Yellow	
Elongation at break:	405%	ASTM D882
Tensile strength:	54MPa	ASTM D882
Maximum use temperature:	177°C	
Materials to avoid:	Phenolic resins / Strong oxidizers	

► STANDARD SIZES

Thickness	Width	Length	Folding shape
50µm ± 10%	2000mm	250m	SHT or CF
	3000mm	250m	CF
	4000mm	150m	CF
	6000 mm	130m	LGS
	8000mm	75m	LGS
	10500mm	75m	LGS
12000mm	75m	LGS	
65µm ± 10%	2000mm	250m	SHT or CF



TECHNICAL DATA SHEET

SK2VF170-2

Multilayer vacuum bagging film

	3000mm	250m	CF
	4000mm	150m	CF
	6000 mm	130m	LGS
	8000mm	75m	LGS
	10500mm	75m	LGS
	12000mm	75m	LGS
75µm ± 10%	2000mm	250m	SHT or CF
	3000mm	250m	CF
	4000mm	150m	CF
	6000 mm	130m	LGS
	8000mm	75m	LGS
	10500mm	75m	LGS
	12000mm	75m	LGS

Shelf life: unlimited.

Storage conditions: recommended temperatures between +5°C and +25°C in original packing, protected from direct sun and heat source.

► NOTE

Other lengths are available under request.

Other colors are available under request.

Width up to 12 meters wide. Film up to 4,6m wide supplied in sheet and V sheet.

Widths 6m and above supplied gusseted, centrally slit.

Folding shapes: SHT- sheet, CF - centerfold, LGS- lay-gusseted slit. For more information, please read the technical information page: SK2VF_Folding shape.



TECHNICAL DATA SHEET

SK2VF170-3

Multilayer vacuum bagging film

[Back to range](#)

► DESCRIPTION

SK2VF170-3 vacuum bagging film is a tough, high temperature resistant co extruded nylon-based material which is designed for use in the production of advanced composite structures such as wind turbine blades and nacelles, boat hulls and decks, plus other industrial structures. The film is ideal for use in both resin infusion and prepreg moulding applications and is resistant to all commonly used resin systems.

This film is not suitable for use in autoclave processing of composites.

► TECHNICAL DATA

Material type:	Multilayer	Test method
Color:	Yellow	
Elongation at break:	360%	ASTM D882
Tensile strength:	40MPa	ASTM D882
Maximum use temperature:	177°C	
Materials to avoid:	Phenolic resins / Strong oxidizers	

► SIZE (STANDARD)

Thickness	Width	Folding shape
50µm	3000mm	CF
	4000mm	CF
65µm	3000mm	CF
	4500mm	CF
	6000mm	LGS
75µm	4000mm	CF
	6000mm	LGS

Shelf life: unlimited.

Storage conditions: recommended temperatures between +5°C and +25°C in original packing, protected from direct sun and heat source. Because it's structure and nature SK2VF170-3 is a quite stiff film and needs some conditioning before use at a reasonable level of humidity in the workshop.



TECHNICAL DATA SHEET

SK2VF170-3

Multilayer vacuum bagging film

► **NOTE**

Maximum width available 12 m (LGS).

Other widths and colors are available under request depending on the volume of order.

This product can be recycled.



TECHNICAL DATA SHEET

SK2VF180-1 Vacuum film

[Back to range](#)

► DESCRIPTION

Transparent nylon bagging film with good elongation which could be used for cure cycle by temperatures up to 180°C.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

Test method

Material type:	Nylon	
Color:	Clear	
Elongation at break:	380%	ASTM D882
Tensile strength:	75 MPa	ASTM D882
Recommended use temperature:	180°C	
Maximum use temperature:	200°C	
Materials to avoid:	Strong oxidizers	
Maximum recommended pressure:	14 bar	

► SIZE

Please, check dimensional chart in this section for dimensional information.

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► NOTE

Available thickness: from 19µm till 75µm

Available widths till 2,3m tubular and 4,60m v-sheet.

By special request MOQ has to be ordered.

Film available as: SHT - sheeting, CF - centerfold, LFT - lay-flat tubing



TECHNICAL DATA SHEET

SK2VF180-1 Vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF200-1 – is soft transparent nylon bagging film with very good elongation for using in cure cycles by temperatures up to 200°C in autoclaves and ovens.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

Test method

Material type:	Nylon	
Color:	Pink/Green	
Elongation at break:	400%	ASTM D882
Tensile strength:	80MPa	ASTM D882
Recommended use temperature:	200°C	
Maximum use temperature:	204°C	
Melting Point:	215° C	
Materials to avoid:	Phenolic resins/Strong oxidizers	

► SIZE

Please, check dimensional chart in this section for dimensional information.

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► NOTE

Other thicknesses and width are available on special order:

Thickness available: 50 and 75µm

Max. widths available:

3000mm LFT or 6000mm CF for thickness of 50 µm.

4000mm LFT or 8000mm CF for thickness of 75 µm.

By special request MOQ has to be ordered.

Film available as: SHT - sheeting, CF - centerfold, LFT - lay-flat tubing.



► DESCRIPTION

SK2VF200-E1 – is soft transparent nylon bagging film with very good elongation for using in cure cycles by temperatures up to 200°C in autoclaves and ovens.

SK2VF200-E1 can be embossed from one side with the «cracked ice» pattern. It allows for rapid air removal when placed under vacuum, eliminating need for separate layer of breather. The pattern has been developed to provide increased stiffness to assist in maintaining a breathable pattern. Bid width makes compacting large parts faster. For best results, place the raised side on top of a perforated release film against the laminate surface.

This product is used in various manufacturing processes of parts made of composite materials.



Pic.1 Embossing with «cracked ice» pattern

► TECHNICAL DATA

		Test method
Material type:	Nylon	
Color:	Pink/Green	
Elongation at break:	400 %	ASTM D882
Tensile strength:	80 MPa	ASTM D882
Recommended use temperature:	200°C	
Maximum use temperature	204°C	
Melting Point:	215° C	
Materials to avoid	Phenolic resins/Strong oxidizers	



TECHNICAL DATA SHEET

SK2VF200-E1 Embossed vacuum film

► SIZE

Thickness	Wide	Folding shape
50µm	1400mm	SHT
	3200mm	CF
75µm	1400mm	SHT
	3200mm	CF

Please, check dimensional chart in this section for dimensional information.

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► NOTE

Embossing is available for film width from 140 cm until 320 cm.
Film available as: SHT - sheeting, CF - centerfold.



TECHNICAL DATA SHEET

SK2VF200-2 Vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF200-2 – is very soft transparent nylon bagging film with high elongation for using in cure cycles by temperatures up to 204°C in autoclaves and ovens. It is recommended for bagging applications where a higher softness is required.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

Test method

Material type:	Nylon	
Color:	Pink	
Elongation at break:	440 %	ASTM D882
Tensile strength:	80 MPa	ASTM D882
Maximum use temperature:	204°C	
Melting Point:	215° C	
Materials to avoid:	Phenolic resins/Strong oxidizers	

► SIZE

Please, check dimensional chart in this section for dimensional information.

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► NOTE

Available thickness: 50 and 75µm

Maximum available widths:

3000mm LFT or 6000mm CF for thickness of 50 µm.

4000mm LFT or 8000mm CF for thickness of 75 µm.

By special request MOQ has to be ordered.

Film available as: SHT - sheeting, CF - centerfold, LFT - lay-flat tubing.



TECHNICAL DATA SHEET

SK2VF200-3 Vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF200-3 vacuum bagging film is a tough, high temperature resistant co extruded nylon-based material which is designed for use in the production of advanced composite structures such as wind turbine blades and nacelles, boat hulls and decks, plus other industrial structures. The film is ideal for use in both resin infusion and prepreg moulding applications and is resistant to all commonly used resin systems.

This film is not suitable for use in autoclave processing of composites.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

		Test method
Material type:	Nylon	
Color:	Blue	
Max elongation:	470 %	ASTM D882
Tensile strength:	65 MPa	ASTM D882
Maximum use temperature:	200°C	
Density:	1,048 g/cm ³	
Thickness:	75 µm	

Shelf life: unlimited.

Storage conditions: it is recommended to store at temperatures between +5°C and +25°C in original packing.

► NOTE

Up to 12 metres wide. Film up to 4,6m wide supplied in sheet and V sheet.
Widths 6m and above supplied gusseted, centrally slit as standard.



TECHNICAL DATA SHEET

SK2VF204-1 Vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF204-1 – is nylon bagging film with high level of elongation for using in cure cycles by temperatures up to 204°C in autoclaves and ovens. It is recommended for bagging applications where a higher softness is required for production of parts with multiple contours.

► TECHNICAL DATA

Material type:	Nylon
Color:	Orange
Tensile strength:	69 MPa
Elongation at break:	450%
Maximum use temperature:	204°C
Materials to avoid:	Phenolic resins/Strong oxidizers

► SIZE

Thickness	Width	Length	Folding shape
50µm	3,56m	305m	CF - centrefold

Shelf life: unlimited

Storage conditions: it is recommended to store at temperature from +10°C till +30°C in original packing.

► NOTE

Maximum use temperature should be determined in actual process conditions. The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, we recommend testing prior to use.



TECHNICAL DATA SHEET

SK2VF205-1 Vacuum film

[Back to range](#)

► DESCRIPTION

Transparent nylon bagging film is formulation of Nylon 6 and Nylon 66 resin. Film has very good elongation and could be used for cure cycle by temperatures up to 205°C.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

		Test method
Material type:	Nylon	
Color	Green	
Elongation at break	400%	ASTM D882
Tensile strength	15.400-19.000 psi	ASTM D882
Maximum use temperature	205°C	
Melting Point:	>240°	
Materials to avoid	Phenolic resins/Strong oxidizers	

► SIZE

Please, check dimensional chart in this section for dimensional information.

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► NOTE

Other thicknesses and width are available on special order:

Thickness: from 19µm till 76µm

Widths: 0,91m till 3,55m.

By special request MOQ has to be ordered.

Film available as: SHT - sheeting, CF - centerfold, LFT - lay-flat tubing.



TECHNICAL DATA SHEET

SK2VF205-2 Vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF205-2 is an embossed etched nylon bagging film recommended for advanced composite manufactured under vacuum moulding or infusion. The structure allows a good resin or air flow. By using this film you replace both: net bleeder and breather. Perfect for debulking operation. This etched film has an excellent heat stability and very good mechanical properties. It is a styrene resistant film and non-porous. Do not use this film in direct contact with phenol resin.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

Test method

Material type:	Nylon	
Color:	Transparent	
Weight:	84g/m ²	
Elongation at break:	400%	ASTM D882
Maximum use temperature	205°C	
Materials to avoid	Phenolic resins	
Density:	1,12g/cm ³	

► SIZE

Thickness	Width	Length
75µm	1600mm	125m

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing. Do not expose this film to the day light. Film is UV sensitive.



► NOTE

Film available as: SHT – sheeting

Total thickness of film though embossing is 430µm.



TECHNICAL DATA SHEET

SK2VF220-1 Vacuum film

[Back to range](#)

► DESCRIPTION

Unique nylon bagging film is formulation of Nylon 66 resin. Film provides superior chemical and thermal resistance and could be used for cure cycle by temperatures up to 220°C.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

		Test method
Material type:	Nylon	
Color	Blue	
Elongation at break	380%	ASTM D882
Tensile strength	12.500-17.300 psi	ASTM D882
Maximum use temperature	220°C	
Melting Point:	256°C	
Materials to avoid	Strong oxidizers	

► SIZE

Please, check dimensional chart in this section for dimensional information.

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► NOTE

Other thicknesses and width are available on special order:

Thickness: from 19µm till 76µm

Widths: 0,91m till 3,55m.

By special request MOQ has to be ordered.

Film available as: SHT - sheeting, CF - centerfold, LFT - lay-flat tubing



TECHNICAL DATA SHEET

SK2VF230-1

High temperature resistant nylon vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF230-1 – is a tough, high temperature resistant co extruded mono-nylon film designed for use in the production of advanced composite structures in aerospace industry. The film is resistant to most of common resins, as well as to bismaleimide resins.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

Test method

Material type:	Nylon	
Color:	Light sky blue	
Density:	1,12 g/cm ³	internal
Elongation at break:	380%	ASTM D638
Tensile strength:	75 MPa	ASTM D882
Maximum use temperature	230°C	

► SIZE

Thickness	Width	Length	Folding shape
50µm	1500mm	300m	SHT
75µm	1500mm	300m	SHT

Shelf life: unlimited

Storage conditions: it is recommended to store at temperature from +10°C until +30°C in original packing.

► NOTE

Other thicknesses and width are available on special order:

Thickness available: 50 and 75µm

Widths available: from 800mm to 1575mm LFT (1600mm till 3150mm open width).

Film available as: SHT - sheeting, CF - centerfolded and LFT - lay-flat tubing



TECHNICAL DATA SHEET

SK2VF246-1 Vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF246-1 – is soft nylon bagging film that can be used when high temperature (up to 246°C) and high pressure are required. It is the recommended material for cures with phenolic resins.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

		Test method
Material type:	Nylon	
Color:	Orange	
Elongation at break MD:	375%	ASTM D882
Tensile strength:	62 MPa	ASTM D882
Recommended working T:	218°C	
Max. use T*:	up to 246°C	
Melting point:	255°C	
Materials to avoid:	Strong oxidizers	

► SIZE

Please, check dimensional chart in this section for dimensional information.

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► NOTE

Other thicknesses, width and colors are available on special order

Thickness available: 50 and 75µm

Widths available: 1525mm LFT or 3050mm CF for thickness of 50 µm

* Maximum use temperature should be determined in actual process conditions.

The maximum use temperature depends on the duration at maximum temperature and is process specific, we recommend testing prior to use. Product sustains short temperature spikes up to 246°C.



TECHNICAL DATA SHEET

SK2VF260-1 Vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF260-1 is a cast fluoropolymer vacuum film product that consists of a 100% PTFE film with a surface treatment/modification for adhesive bonding and/or lamination to various substrates. Several colors and several treatments are available.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

Material type:	PTFE
Color:	Yellow
Working temperature:	-73°C to 260°C
Elongation at break:	400%
Tensile strength minimum:	2000 psi
Surface tension minimum:	40 dynes

► SIZE

Reference	Thickness	Width	Length
SK2VF260-1YW5012250	50µm	1,22 m	50 m
SK2VF260-1YW7512250	75µm	1,22 m	50 m

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► NOTE

Length of roll can be modified according to the client needs.

Maximum available width is 1,42m.

Available colors at request: Red, White, Blue, Tan



TECHNICAL DATA SHEET

SK2VF400-1 Vacuum film

[Back to range](#)

► DESCRIPTION

SK2VF400-1 – is polyimide vacuum film that provides excellent electrical, thermal, physical, and chemical properties over a wide temperature range from -265°C until +400°C in a lightweight package making it superior for a wide array of applications. Product advantages include high electric strength, isotopic property, dimensional stability, scratch and abrasion resistance.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

		Test method
Material type:	Polyimide	
Color:	Amber	
Elongation at break:	85%	ASTM D882
Tensile strength:	25 Kgf/mm ²	ASTM D882
Density:	1.46 g/cm ²	ASTM D1505
Dielectric constant:	3.3	
Heat shrinkage:	0.05	ASTM D5213-04
Recommended working T:	235°C	
Max. use T*:	up to 400°C	

► SIZE

Thickness	Width	Length
12µm	1570mm	152m
25µm	1570mm	152m
50µm	1570mm	152m
75µm	1570mm	152m

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.



TECHNICAL DATA SHEET

SK2VF400-1
Vacuum film

► **NOTE**

Maximum roll length 1524 m.

* Maximum use temperature should be determined in actual process conditions.

The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, we recommend testing prior to use.



TECHNICAL DATA SHEET

SK2VR145-1

Multilayer vacuum release film

[Back to range](#)

► DESCRIPTION

SK2VR145-1 is an economical self-releasing multilayer vacuum bagging film that can be used for cure cycles up to 145°C, which provide antiadhesion from most resins used in manufacturing in aerospace, marine and entertaining products industries. It can be used as vacuum bag and as release film. Due to multilayer structure the film has improved strength and heat resistance characteristics. It is suitable both for polyester, vinylester and epoxy resins.

► TECHNICAL DATA

		Test
method		
Material type:	Multilayer Polyolefin + Nylon	
Color:	Light green	
Thickness:	30 µm, 50 µm and 75µm	ISO 4593
Density:	0,97 g/cm ³	
Tensile strength at break: D882	65 MPa	ASTM
Elongation at break: D882	410%	ASTM
Recommended working temperature: D882	145°C	ASTM
Maximum use temperature*:	158°C	

► SIZE

Thickness	Width	Folding shape
30µm	1500mm	SHT - sheet

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

► NOTE

Perforation PJ, PK and PL is available for this film.

* Maximum use temperature should be determined in actual process conditions.



TECHNICAL DATA SHEET

SK2VR160-1

Multilayer vacuum release film

[Back to range](#)

► DESCRIPTION

SK2VR160-1 is a self-releasing multilayer vacuum bagging film designed for processing of hollow advanced composite structures where easy removal of the bag following the cure is desirable to as to avoid damage to the component. It can be used for manufacturing of hollow parts such as bicycle components, masts, fishing rods, etc. The film is ideal for use in both oven and autoclave cures, up to a maximum recommended temperature of 160°C. It is compatible with phenolic, polyester and epoxy resins.

► TECHNICAL DATA

Test method

Material type:	Polyolefin nylon mixture	
Color:	Green	
Thickness:	70µm	
Elongation at break:	445 %	ASTM D882
Tensile strength (at break)	42 MPa	ASTM D882
Maximum use temperature:	160°C	

► SIZE

Thickness	Width	Folding shape
70µm	3000mm – 8000mm	LFT – lay-gusseted tube
70µm	860mm - 2500 mm	LGS - lay-gusseted slit

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

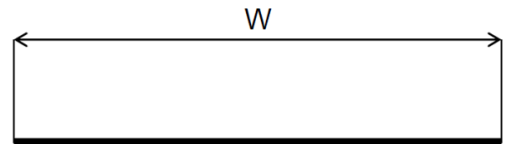
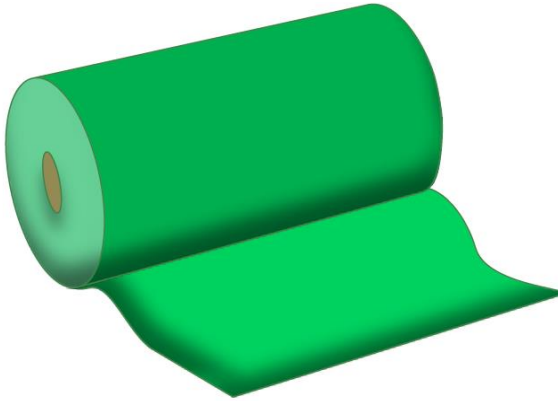
► NOTE

By ordering of a narrow sleeve this film can supplied as LGT folding shape, thus simplifying laying in the closed contractions.

This film is also available in 30 micron thinness with PJ perforation. In this case the reference for ordering is SK2VR164-1GNPJ30150500SHT.

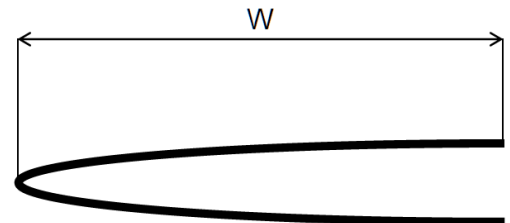
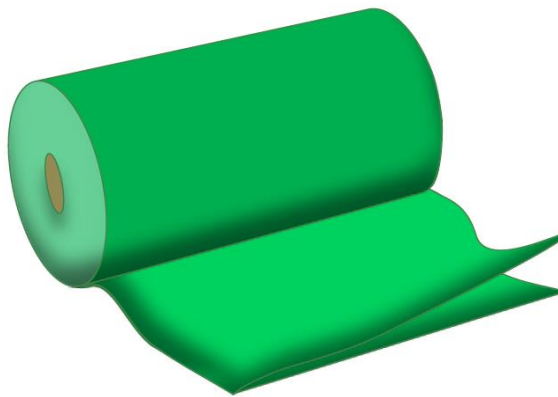
[Back to range](#)

▶ **SHT = sheeting**



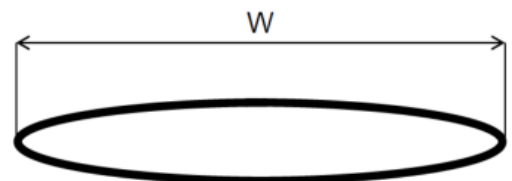
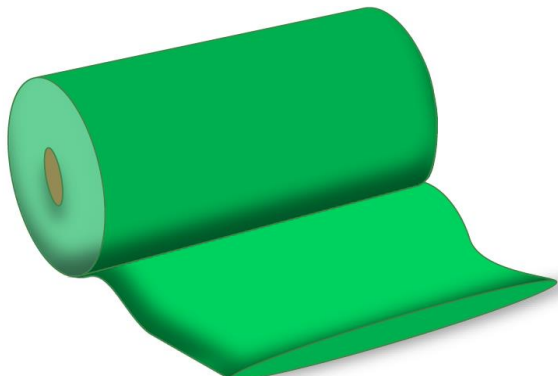
SHT: The width of the film indicated in the reference corresponds to W .

▶ **CF = centerfold**



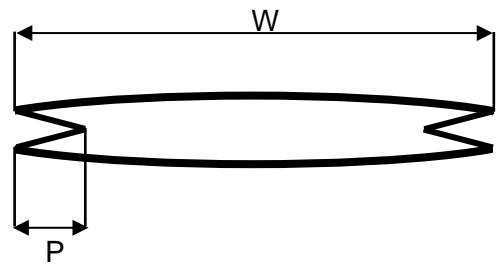
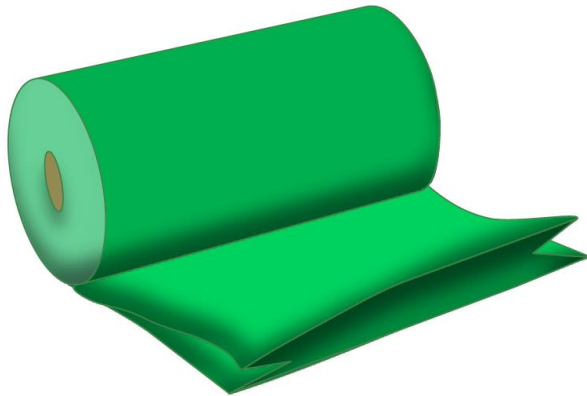
CF: The width of the film indicated in the reference corresponds to $2W$.

▶ **LFT = lay-flat tubing**



LFT: The width of the film indicated in the reference corresponds to W .

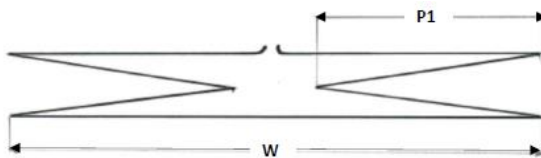
▶ **LGT = lay-gusseted tubing**



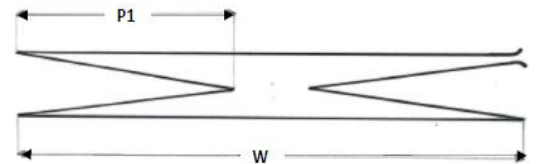
LGT: The width of the film indicated in the reference corresponds to $2W+4P$.

▶ **LGS = lay-gusseted slit**

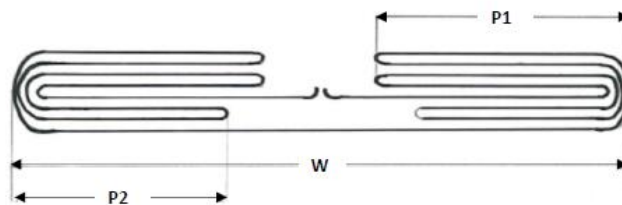
Depends on the thickness and width the film can be pleated in 3 possible ways:



V1: The width of the film indicated in the reference corresponds to $2W+4P$.

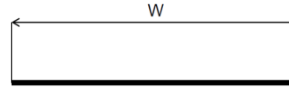


V2: The width of the film indicated in the reference corresponds to $2W+4P1$.



V3: The width of the film indicated in the reference corresponds to $2W+4P1+2P2$.

► **SHT (sheeting)**



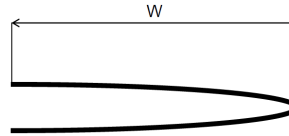
Data for film in 2 mil (50µm)

Widths (W)		Length (L)		Weight roll appr .	
inch	m	ft	m	lb	kg
54	1,37	2000	610	106	48
60	1,52	1000	305	59	27
72	1,83	1000	305	70	32

Data for film in 3 mil (75µm)

Widths (W)		Length (L)		Weight roll appr .	
inch	m	ft	m	lb	kg
54	1,37	1500	457	119	54
60	1,52	1000	305	88	40
72	1,83	1000	305	106	48

► **CF (centerfold)**



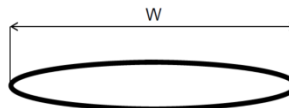
Data for film in 2 mil (50µm)

Widths (W)		Length (L)		Weight roll appr .	
inch	m	ft	m	lb	kg
96	2,44	1000	305	94	43
108	2,74	750	229	79	36
120	3,05	750	229	88	40
140	3,56	750	229	103	47

Data for film in 3 mil (75µm)

Widths (W)		Length (L)		Weight roll appr .	
inch	m	ft	m	lb	kg
96	2,44	1000	305	141	64
108	2,74	750	229	119	54
120	3,05	750	229	132	60
140	3,56	750	229	154	70

► **LFT (lay-flat tubing)**



Data for film in 2 mil (50µm)

Widths (W)		Length (L)		Weight roll appr .	
inch	m	ft	m	lb	kg
27	0,69	1000	305	53	24
36	0,92	1000	305	70	32
48	1,22	1000	305	94	43
54	1,37	1000	305	106	48
60	1,52	1000	305	117	53
70	1,78	750	229	103	47

Data for film in 3 mil (75µm)

Widths (W)		Length (L)		Weight roll appr .	
inch	m	ft	m	lb	kg
27	0,69	750	229	60	27
36	0,92	750	229	79	36
48	1,22	750	229	106	48
54	1,37	750	229	119	54
60	1,52	750	229	132	60
70	1,78	750	229	154	70

► **NOTE**

Other thicknesses and width are available on special order:

Thickness: from 19µm till 76µm.

Width: from 0,91m till 3,56m

By special request MOQ has to be ordered.



TECHNICAL DATA SHEET

Resin compatibility Vacuum bag film selection guide

[Back to range](#)

The following guideline is intended for reference only. STEVIK cannot control processing parameters or test all the materials available at the market. Risk reduction panel testing is strongly recommended before serial production. Please ask us for sample of vacuum film for testing. Film selection should be based on temperature requirement.

Compatible: V

To avoid: X

Name	Max. use T°C	Resins					Using in autoclave
		Epoxy	Polyester & Vinylester	Phenolic	BMI	Cyanate Ester	
SK2VF120-1	120°C	V	V	X	X	X	NO
SK2VF120-E1	120°C	V	V	X	X	X	NO
SK2VR145-1	145°C	V	V	V	X	X	NO
SK2VR160-1	160°C	V	V	V	X	X	YES
SK2VF170-1	170°C	V	V	V	X	X	YES
SK2VF170-2	177°C	V	V	V	X	X	NO
SK2VF170-3	177°C	V	V	V	V	V	NO
SK2VF180-1	180°C	V	V	X	V	V	YES
SK2VF195-1	180°C	V	X	V	X	X	YES
SK2VF200-1	200°C	V	V	X	V	V	YES
SK2VF200-E1	200°C	V	V	X	V	V	YES
SK2VF200-2	204°C	V	V	X	V	V	YES
SK2VF200-3	200°C	V	V	X	V	V	NO
SK2VF204-1	204°C			X			
SK2VF205-1	205°C	V	V	X	V	V	YES

It remains responsibility of the user to verify that this product meet the requirement of the process applied.



TECHNICAL DATA SHEET

Resin compatibility Vacuum bag film selection guide

SK2VF205-2	205°C	V	V	X	V	V	YES
SK2VF220-1	220°C	V	V	V	V	V	YES
SK2VF230-1	230°C	V	V	V	V	V	YES
SK2VF246-1	246°C	V	V	V	V	V	YES
SK2VF260-1	260°C	V	V	V	V	V	YES
SK2VF400-1	400°C	V	V	V	V	V	YES