

WINNING!

Venus[®] FILMS GUIDE

The Venus FX7 powers through the pack to a winning position at Sandown in the 4th round of the 1997 state series.



Mario Caligari triumphs at Phillip-Island—receives the Matthew Flinders Plate for the Venus Circuit Racing Team.

*The complete guide
to Venus films
for packaging.*

Venus MICRO-PP

Venus MICRO-PERFORATED POLYPROPYLENE

A non-shrinkable balanced film biaxially oriented 20% machine direction (MD) and 20% transverse direction (TD), suitable for use with Venus heat sealers and L-bar sealers. Oriented PP has greater stiffness, tensile strength, tear strength and impact strength than non-equally oriented PP and it can be heat sealed at lower temperatures. The emission of heat and steam through the micro-perforations ensures bakery products such as breads, rolls and biscuits retain their crispness and freshness. Due to its dimensional stability and its excellent durability at low temperatures this film is also ideal for frozen and cold storage goods. 20um thick, centrefolded on 750 metre rolls. 160 holes/cm²

Width mm	Kg per roll
400/200	5.46
500/250	6.83
600/300	8.19
700/350	9.51
800/400	10.92



MICRO-PERFORATED P.P. MK II

Width mm	Kg p/roll
400/200	6.19
700/350	11.29

Venus SKIN FILMS

Venus POLYTHENE/EVA

A low cost film made of co-extruded polyethylene and ethylene-vinyl acetate (PE/EVA). The EVA content provides outstanding impact strength and resilience, while the polyethylene content provides a barrier to moisture and oxygen. This combination provides optimum protection and a sparkling presentation for a wide range of card mounted products — from heavy, sharp, odd shaped, metallic and rust prone items such as tools automotive parts and hardware items, to breakables such as toys and cookware. The EVA

adhesive is built into the film, eliminating the need to coat the card.

Venus Skin Film is suitable for use in the

Venus Vacuumster Skin Packaging machines.

Width mm	Length metres	Thickness um	Weight per roll, kg
360	450	80	11.40
360	450	110	16.50
360	320	150	16.20
508	430	80	19.00
508	200	175	16.40 - 17.00
508	230	150	16
508	140	250	16.30
660	220	175	23.70



Venus Lym EVA

A strong, high clarity co-extruded (Surlyn*) ethylene-vinyl acetate (EVA) skin film with deep draw capabilities which make it ideal for taller products as well as carded displays. It softens at lower temperatures and is therefore faster to use than polyethylene films. The EVA adhesive additive eliminates the need for adhesive coated backing cards.

*Du Pont trademark

Venus Lym VIRGIN

This film has no adhesive additive, therefore cards do need to be adhesive coated.

Width mm	Length metres	Thickness um	Weight per roll, kg
360	450	75	12.33
360	300	125	12.86
360	300	175	17.46
508	450	75	18.10
508	300	125	19.33
508	200	175	16
635	300	125	23.33
660	300	125	22.5
660	200	175	21.10

Width mm	Length metres	Thickness um	Weight per roll, kg
360	300	125	12.40
360	300	175	17.38
508	300	125	18.56
508	200	175	16
635	300	125	23.33
660	300	125	22.50

VenCover

VenCover BOOK COVERING FILM

VenCover is made from crystal clear polypropylene. It is waterproof and greaseproof. Stains simply wipe off. Hardcover books retain their new condition for years and the life of paperbacks is extended by strengthening the spine. VenCover can be removed and re-positioned during application and because it has minimum stretch a smooth, wrinkle-free finish is easily achieved. VenCover is also ideal for preserving maps, wall charts and your favourite magazines, posters and prints. Chinagraph pencil notations can be made and removed repeatedly. Available in 15 metre rolls x 225mm, 250mm, 300mm, 375mm, 450mm and 900mm, 75 um thick. Special sizes cut to order, from 75mm to 900mm.



Venus BUBBLE PACK

Venus POLYTHENE BUBBLE PACK

Protect fragile and valuable items such as paintings, pottery and mirrors from shocks and scuffing during handling, storage and transit. Venus Bubble Pack is economical and easy to use. 80 um thick in 50 and 100 metre rolls.



Width mm	Length m	Bubble	
		diam mm	Height mm
500	50	10	4.5
	100	10	4.5
1500	100	20	6.5

Venus PE TUBING

Venus POLY TUBING

The easy and effective way to package long items such as pipes, rods, automotive components, garden tools, umbrellas, etc. Venus Poly Tubing is made from LDPE. The package can be closed using Venus heat sealers, Venhart hand clippers or VenThiss.



Width		Thickness		Approx kg per roll	Approx. metres/kg
inches	mm	inches	um		
2	50	.002	50	3	209
3	75	.002	50	8	140
4	100	.002	50	10	104
5	125	.002	50	15	87
6	150	.002	50	15	70
8	200	.002	50	20	50
9	228	.002	50	25	46
12	304	.002	50	30	34
15	380	.002	50	35	28
18	460	.002	50	35	23
24	610	.002	50	35	17
30	760	.002	50	35	14



The Venus Rx7 leads at Phillip Island

VENUS FILMS

Venus LIDDING FILM

LIDDING AND TRAYS FOR Venus VPA1, VPA2, TSM93 and TSV95 THERMO-SEALERS.

The Venus Thermo-seal system is designed for suppliers of fresh foods and hot or cold prepared dishes. The lid is heat sealed to the tray creating an hygienic, leak-proof seal which ensures freshness, weight retention and visual appeal.



POLYTHENE COATED PAPER LIDDING

The polythene coated paper material 'breathes' to ensure foods retain their appetising colour and consistency; ideal for shellfish, pastas, sausages, etc. Six rolls per carton.

CLEAR FILM LIDDING

This polypropylene coated, polyester film gives a clear view of the packaged contents. Foods can be prepared in advance and displayed. Six rolls per carton.

Type	Width mm	Length m	Thickness um
PE coated paper	125	1801	film 15*
Clear film	125	3001	65
Clear film	310	545	12 um PET / 40 um PP
Clear film	310	415	12 um PET / 50 um PP

*Paper 42gsm

POLYPROPYLENE TRAYS

The thick, heavy duty PP has vertical corrugations which provide extra strength and rigidity to prevent deformation. Venus trays are temperature resistant from -20 to +130 degrees C and completely microwave and freezer safe. 100 per pack.

Length mm	Depth mm	Thickness um	Capacity gm	Pieces per ctn
149	36	400	375	1200
149	50	400	500	800
149	70	500	650	800
199	52	500	750	800
199	73	700	1000	600
199	106	950	1500	400
*325	95	1000	5.5 litre	92

*All trays are 118mm wide except 5.5 litre size which is 265mm wide.

Venus CLING FILMS

VenCling ROLLS

PERFORATED SHEETS ON A ROLL

VenCling is made from co-extruded polyethylene/ethylene vinyl acetate (PE/EVA). With outstanding impact strength, resilience, softness, flexibility and clarity it is the perfect cling film for caterers, sandwich bars, canteens and take-away food shops. Tear-off perforations ensure fast and easy dispensing. 12um thick sheets on rolls.

Width mm	Perforations every (mm)	Weight roll, Kg	Sheets per roll	Film Type
250	250	2.74	1900	PE
300	300	2.33	1600	PVC
350	350	2.40	1300	PVC

CUTTER BOXES

Width mm	Length metres	Thickness um	Film type	Quantity per carton
300	300	11	Aliprot PE microwave safe	10
300	300	13	PVC	4
330	300	13	PVC	4
450	300	13	PVC	9

REFILL ROLLS

Width mm	Length metres	Thickness um	Film type	Quantity per carton
300	300	12.5	PE EV	9
300	300	12.5	PVC	9
300	300	13	PVC Meatwrap	4
330	600	13	PVC	4
450	300	12.5	PE EV	9
450	300	12.5	PVC	9
450	300	13	PVC Meatwrap	9
450	500	13	PVC	9

Venus PVC VEGEWAP

Venus Vegewrap stretch film keeps vegetables and fruits such as trays of tomatoes, sugar peas, sweet corn and strawberries fresh and appealing at the point of sale. It is made of soft, clear, non-fogging extruded poly vinyl chloride (PVC) with a green tinge.

Width mm	Length metres	Thickness um	Weight per roll Kg
300	1300	13	6.21
400	1300	13	8.28
450	1300	15	9.30
450	1950	13	12.10
380	1300	15	9.10
400	1300	15	9.55



Venus PVC MEATWRAP

Soft and clear with a champagne tinge, this stretch film is used for the in-store packing of fresh meat. It is made of thin gauge extruded poly vinyl chloride (PVC). The film's high water vapour and oxygen transmission properties allow the meat to breathe, which prevents fogging and helps the meat to retain its freshness, colour, and appeal. (PVC is not suitable for cooked or processed meat, or cheeses.)



Width mm	Length metres	Thickness um	Weight per roll, kg
Colour: clear champagne tinge			
300	1300	13	6.21
380	1300	13	7.87
400	1300	13	8.28
410	1300	15	9.80
600	1300	17	16.50
Colour: clear gold tinge			
455	1300	13	9.32
300	1950	13	9.32
450	1300	17	12.30



VenLene

VenLene SHEETS

The polythene sheets used by butchers and delicatessens for fast and hygienic selection and wrapping of meat, poultry and smallgoods at the counter. They are also used as interleaves between items that might stick together and between pottery, crockery and cutlery, etc to prevent scratching and chipping. Sheets are made from high density polyethylene VenLene (HDPE) which has high tensile strength, low elongation, medium stiffness; and excellent grease and temperature resistance. .0004" (10um) thick. 480 sheets per pack, 20 reams per carton.

Width inches	Width mm	Length inches	Length mm
16	405	26	660
17	430	27	685
18	455	28	710



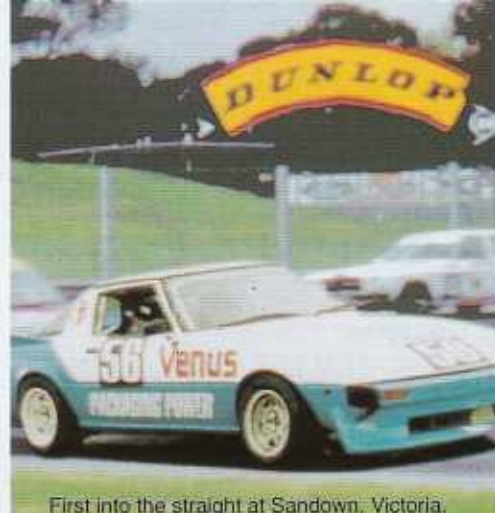
Venus FILMS SELECTION GUIDE

PERFORMANCE COMPARISON

	LDPE	HDPE	PP Non-equally Oriented	PP Oriented	PVC	
CLARITY transparent=tp, translucent=tl, opaque=op	tp to tl	tp to op	tp	tp	tp to ti	
YIELD Square cm per kg (25.4um thick)	426,700	412,477	430,967	419,587	270,243 to 315,760	
SPECIFIC GRAVITY (vs relative density, Water=1)	.910 to .925	.941 to >.965	.88 to .90	.88 to .90	1.23 to 1.35	
TENSILE STRENGTH kg square cm ² (ASTM D 882)	70 to 246	211 to 703	211 to 422	1055 to 2109	141 to 1336	
STRETCH % (ASTM D 822)	225 to 600	5 to 400	200 to 500	200 to 500	5 to 500	
IMPACT STRENGTH kg cm	7 to 11	1 to 3	1 to 3	10 to 25	12 to 20	
TEAR STRENGTH (Elmendorf) gm/ml (ASTM D1922)	100 to 400	15 to 300	40 to 330	40 to 330	Varies widely.	
STIFFNESS gm (handle-o-meter) MD TD	2.5 to 4.5 3 to 7	8 to 16 10 to 20	11 to 27 11 to 27	11 to 27 20 to 30*	7.5 to 40 10 to 45	
HEAT SEAL RANGE deg C	121 to 177	135 to 154	163 to 204	88 to 132	93 to 177	
WATER VAPOUR TRANS. gm/24hrs/ 1 sq.m/ 38deg C/ 90% RH/ (ASTM E 96 Method E1 11)	18	5 to 10	8 to 10	4 to 10	25 plus	
GAS TRANS. cc/ml/ 1 sq.m/24hrs 1 atm/23 deg C 0% RH (ASTM D 1434)	O ² CO ²	3900 to 13000 7700 to 77000	520 to 3900 3900 to 10000	1300 to 6400 7700 to 21000	1300 to 6400 7700 to 21000**	77 to 7500 770 to 55000
RESISTANCE TO GREASES AND OILS	May swell slightly on long immersion.	Excellent	Excellent	Excellent	Excellent	
MAX USE TEMPERATURE deg C	66 softens at 110	110	121	121	93 approx. Depends on plasticiser	
MIN USE TEMPERATURE deg C	-5	-51	***		Depends on plasticiser	
DIMENSIONAL CHANGE AT HIGH RH %	None	None	None	None	None	
FLAMMABILITY	Slow burning	Slow burning	Slow burning	Slow burning	Self extinguish.	
MACHINE PERFORMANCE	Fair/good	Good	Fair/good	Fair/good	Fair/good	
PRINTABILITY	Good if treated	Good if treated	Good if treated	Good if treated	Special inks required	
SEALING	Heat	Heat	Heat	Heat	Heat or adhesive	
HEAT SHRINKABLE	Special types	Some types			Some types	

* Balanced, oriented, stabilised and coated two sides. ** Varies according to composition or type and weight of coating.

*** Non-equally oriented PP films are not recommended where low temperature durability is required. Oriented, balanced, stabilised coated PP has good low temp durability.



First into the straight at Sandown, Victoria.



The Venus team.

GLOSSARY OF TERMS USED IN THE PLASTICS INDUSTRY

MONOMER The smallest repeating structural unit of a POLYMER. Mono = one, Mer = unit.

POLYMER A solid substance in the form of a (giant) long chain molecule produced by joining the molecules of a gaseous or liquid substance by chemically and physically modifying them with heat, pressure and catalysts. Poly = many, Mer = unit.

POLYMERISATION The process of producing POLYMERS from MONOMERS.

COPOLYMERISATION The process of 'addition polymerisation' involving more than one type of mer, eg ethylene and propylene.

PLASTICS Products chemically synthesised from petroleum, natural gas, coal and certain agricultural products such as cotton and soybeans. The most important source is petroleum which yields the lightweight gases, methane, ethylene, propane and propylene. These are combined in various proportions with salt, chlorine, formaldehyde, nitrogen, air or various other chemicals to produce the required properties.

PLASTIC FILMS COMPARISON

LOW DENSITY POLYETHYLENE (LDPE) LDPE is amorphous and has branched polymer chains. It has a crystallinity of about 60 — 70 % It has greater impact strength, elongation, flexibility and transparency than HDPE. *Applications:* mostly bag making because it is most readily heat sealed, has optimum balance of impact strength and clarity, superior properties at low temperatures, and is lowest cost. Ideal for high volume industrial packaging, and shrink wrapping of pallets loads.

HIGH DENSITY POLYETHYLENE (HDPE) HDPE is more crystalline and has linear polymer chains. It has a crystallinity of 75 — 95% It has greater stiffness, tensile strength and creep resistance; and higher softening and melting points than LDPE, therefore it has a higher minimum heat sealing temperature. Blown HDPE is normally translucent, not transparent. Cast HDPE has better clarity and superior grease resistance. *Applications:* used for speciality laminations where the packaging product is subjected to high heat.

POLYPROPYLENE CAST PP has no shrinking properties. It has high stiffness and therefore excellent machineability. It has outstanding optics — transmission of colour without distortion, high gloss and sparkle. The gloss level is approximately 30% greater than polyethylene. It is strong, static free, scuff resistant, has excellent thermal resistance, receptivity to printing, and long shelf life (lack of yellowing and brittling on aging). Ideal for slow turnover products and for self service displays. *Applications:* Soft goods, shirts, hosiery, bag packing of breads and rolls, twist

POLYOLEFIN A family of hydrocarbons with carbon to carbon bonds. Polyethylene and polypropylene are both polyolefins.

POLYETHYLENE A thermoplastic material composed of polymers of ethylene (a polyolefin). Commonly shortened to 'polythene' or 'PE'.

POLY VINYL CHLORIDE (PVC) Chemically similar to polyethylene, except one of the hydrogen atoms from each molecule has been replaced by a chlorine atom. The basic raw material is acetylene or ethylene gas.

POLYPROPYLENE Polypropylene is made by the polymerisation of high-purity propylene gas (a polyolefin) in the presence of an organometallic catalyst at relatively low pressures and temperatures. Commonly shortened to 'PP'.

ETHYLENE-VINYL ACETATE (EVA) A high molecular weight copolymer of ethylene and vinyl acetate. (* Note: Ethylene-vinyl alcohol is EVOH, not EVA).

MOLECULAR STRUCTURE OF POLYMERS

LINEAR: long chains of molecules without appendages. **BRANCHED:** Appendages branch from the molecular chains in

wrapping of confectionery, bagging of lightweight vegetables - lettuce, spinach, mushrooms etc.

POLYPROPYLENE TYPES HOMO POLYMER: Greater stiffness. Ideal where machineability is important, but more brittle at low temperatures and has a narrower heat sealing range than copolymer PP. Ideal for cards, stationery, hosiery, specialty hand wraps of fruits and gift baskets. **COPOLYMER:** Used for side weld bags because of its excellent heat sealability over a wide temperature range. Shrinkable PP films are usually based on copolymers and are generally balanced. Ideal for packaging toys, records etc.

ORIENTED POLYPROPYLENE Stretching the film during manufacture produces orientation of the molecular structure. Improves machineability and low temperature performance. Ideal for cellophane type uses. Some films are used for shrink packaging. It cannot be converted into side weld or envelope bags because sealing temperatures required alter the film's orientation and radically change its overall properties. *Properties:* Excellent durability, dimensional stability, low water vapour transmission, exceptional flex crack resistance, outstanding clarity, favourable economics. *Applications:* Used for snack foods, biscuits, tobacco, cheeses etc.

The major distinctions between polypropylene films are the degree and type of orientation;

BALANCED ORIENTATION PP Highly oriented in both directions, machine and transverse. Balanced types: 1. Shrink. 2. Heat set

three dimensions. These side chains permit greater interlocking. **CROSS LINKED:** chains with chemical links between adjacent chains. Cross linking restricts movement between chains therefore the polymer is usually not thermoplastic.

SHRINK FILM Is made from cross linked polymer and usually 'prestressed'. When heated it tries to return to its original dimensions.

FILM PRODUCTION METHODS

CASTING The casting of film involves dissolving of plastics granules or powder, plasticiser, colourants or other additives in a suitable solvent. The solution is poured onto a stainless steel belt and the solvents evaporated by application of heat. The film deposit left on the belt is stripped away and wound onto a take-up roller.

BLOWN FILM EXTRUSION The molten plastic is forced out of an adjustable circular die opening, forming a tube. Air is forced into this extruded tube expanding it to the desired diameter. This blow helps regulate the film thickness. The air expanded tube may be wound onto take-up rollers or split and wound as flat film.

(stabilised against thermal dimensional changes through various manufacturing techniques) 3. Heat sealable — generally coated on one or both sides. Better water vapour barrier, stiffness and low temperature performance than cast or non-equally oriented PP.

NON-EQUALLY ORIENTED PP Highly balanced in one direction, usually transverse, and maybe some orientation in the other direction.) Non-equally oriented types: 1. Heat set. 2. Heat sealable (a) extrusion coated or co-extruded (b) lacquer or emulsion coated. *Applications* **HEAT SET:** Used in combined laminated structures with cellophane or paper for snack packaging, with polyethylene and cellophane for cheeses, meats, coffee. Balanced films are preferred for better durability etc. **BARRIER COATED, HEAT SET ORIENTED PP:** has all the properties of other oriented PP films plus excellent gas barrier, moisture barrier and heat sealing properties. Extrusion coated with polyethylene or ethylene vinyl acetate copolymers it provides an excellent structure for gas flush or vacuum packaging.

ETHYLENE-VINYL ACETATE (EVA) EVA is slightly more expensive than LDPE and a poorer barrier to moisture, oxygen and most solvents. *Properties:* Outstanding impact strength (especially at low temperatures), a wide heat sealing range, resilience, softness, flexibility, resistance to flex and stress cracking, excellent clarity, printability and resistance to weathering. Its resilience is not achieved with plasticisers therefore it has no plasticiser migration problems. *Applications:* Skin packaging (usually co-extruded with polyethylene), cling and stretch food wrap films.

WINNING Venus PACKAGING FILMS

Venus POLYTARPS

Venus P.E. TARPAULINS

These tough tarpaulins are made from UV stabilised woven polypropylene. They are waterproof, tear and fade resistant. The seams are heat sealed and double stitched, and the hems have rope reinforcement and brass eyelets. 10 x 10 weave per 25mm.



HEAVYWEIGHT GREEN Brass eyelets every 560mm*. Sizes quoted are 'finished' sizes. Weight: 145gm/square metre. *12' x 18' (3.5m x 5.5m) and 17' x 24' (5m x 7m) sizes are also available with eyelets every 915mm.

Width		Length		Weight kg	Quantity per pack
feet	metres	feet	metres		
12	3.5	18	5.5	2.8	8
*12	3.5	18	5.5	2.8	5
17	5	24	7	5.3	5
*17	5	24	7	5.3	4
19.6	6	29.5	9	8	3

LIGHTWEIGHT BLUE Brass eyelets every 915mm. Sizes quoted are 'cut' sizes. Weight: 120 gm/square metre.

Width		Length		Weight kg	Quant. per pack
feet	metres	feet	metres		
4	1.2	6	1.8	0.2	50
6	1.8	8	2.4	0.5	40
8	2.4	10	3	0.8	25
10	3	12	3.6	1.3	20
12	3.6	12	3.6	1.5	10
12	3.6	14	4.2	1.8	10
12	3.6	16	4.8	2.1	10
12	3.6	18	5.4	2.3	10
12	3.6	20	6.1	2.6	5
12	3.6	24	7.3	3.2	5
16	4.8	24	7.3	4.2	3-5
24	7.3	30	9.1	7.9	1
30	9.1	30	9.1	9.9	1

HEAVYWEIGHT SILVER/BLACK

Brass eyelets every 915mm. 14 X 14 weave per 25mm. Sizes quoted are 'cut' sizes. Weight: 200 gm/square metre.

Width		Length		Weight kg	Quant. per pack
feet	metres	feet	metres		
6	1.8	8	2.4	1	20
8	2.4	10	3	1.66	15
10	3	12	3.6	2.46	15
12	3.6	14	4.2	3.3	10
12	3.6	16	4.8	3.8	10
12	3.6	18	5.4	4.25	8
12	3.6	20	6.1	4.75	8
12	3.6	24	7.3	5.75	8
16	4.8	20	6.1	6.4	5
16	4.8	24	7.3	7.6	5
18	5.4	22	6.6	7.8	5
18	5.4	24	7.3	10.2	4
20	6.1	24	7.3	10.33	3
20	6.1	30	9.1	12	2
24	7.3	30	9.1	14.5	2
30	9.1	30	9.1	18	1

Venus PE SHEETING

Venus REMIL POLYTHENE SHEETING

A thick, heavy duty sheeting made from low density polyethylene. Venus Remil sheeting is the ideal fish pond liner and weed barrier. It can also be used as a drop sheet for painting and plastering, for protecting new concrete and paving and for many other building applications.



Width m	Length m	Thickness um	Kg/roll (approx)	Colour
1	200	50	9.20	clear, black
1	400	50	18.40	clear, black
1	100	100	9.20	clear, black
1	200	100	18.40	clear, black
2	200	50	18.40	clear, black
2	100	100	18.40	clear, black
3	100	100	27.60	clear, black
3	75	150	31.10	clear
4	100	100	36.80	clear, black
4	200	50	36.80	black
4	50	150	27.60	clear
4	50	200	36.80	clear, black, orange
6	50	150	42.20	black
6	25	200	27.60	black
6	50	200	55.2	black

Venus SINGLE WOUND POLYTHENE SHEETING

For Venus Mailbag Machine

Width mm	Length m	Thickness um	Weight per roll, kg
490	1000	30	16

Venus GIFT WRAP

Venus METALLIZED PP GIFT WRAP



The rich sheen of Venus Metallized polypropylene gift wrap adds glamour to any gift. Choose from 28 designs including, stripes, florals, pastels, birthday, Christmas and holographic in rolls and sheets. 30um thick. **ROLLS:** 500mm x 30 metre and 90 metre lengths. **SHEETS WITH HEADER CARD:** Rolled, 600mm x 900mm. 6 sheets per bag, 24 bags per pack. Folded, 500mm x 700mm. One sheet per bag. 240 sheets per box. **CHRISTMAS BAGS WITH HEADER CARD:** Rolled, 600 x 900mm. 6 sheets per bag, each a different design, 24 bags per pack.

Venus FLORIST WRAP

Oriented polypropylene (OPP) rolls 500mm x 500mm x 25um thick. Choose from plain transparent and transparent with white daisies. 4 rolls per carton.

Venus SILAGE FILM

Venus SILAGE BALE WRAPPING FILM

A strong, durable, 25um thick film made of 3 layers of co-extruded linear low density polythene (LLDPE) with excellent stretch, cling and self-sealing qualities. The film has a tacky surface with higher tackiness on the outer surface. This forms a strong, airtight seal which ensures bales remain in top condition for up to 12 months. Venus Silage film is UV stabilised to resist deterioration from prolonged exposure to sunlight. It is suitable for use in all modern round bale wrapping machinery.



SPECIFICATIONS

COLOUR	BLACK	WHITE	LIGHT GREEN
TACK STRENGTH gm	215	215	215
IMPACT RESISTANCE gm	500	490	500
TENSILE STRENGTH kg/100 cm			
Longitudinal	210	206	206
Transverse	139	143	143
ELONGATION %			
Longitudinal	378	435	435
Transverse	600	256	256
TEAR STRENGTH Newtons			
Longitudinal	3.2	3.2	3.2
Transverse	11.8	11.8	11.8
WIDTH mm	500 750	500 750	500 750
METRES PER ROLL	1800 1500	1800 1500	1800 1500
kg ROLL	21.3 26.25	21.3 26.25	21.3 26.25
ROLLS PER PACK	1 1	1 1	1 1
ROLLS PER PALLET	64 40	64 40	64 40
TYPICAL CROPS	Pasture hay or first cut lucerne.		