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The polythene experts

Polythene Types and Data Sheets Innovative Soft Fruit Growing Solutions

Compare our polythene with yours

June 2016

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THERE'S A LOAD OF RUBBISH TALKED ABOUT THICKER FILMS BEING STRONGER AND LASTING LONGER.

When we started our polythene business 20 years ago all films were either 180 or 200 mu thick. And they only lasted for 2 or 3 seasons.

So thickness has nothing to do with how long they last or how strong they are.

Technology has come on a long way in 20 years and you definitely don't need a thick film to make it strong if you are using modern co polymers. The difference between 140 and 150 mu is 10/100ths of a MILLIMETRE. So it's a very-very small amount.

MAKE IT GREEN

There is no way to make polythene totally Green - yet. So we do our best to make it as green as possible.

How?

1. We make it thinner so that you can cover a greater area with every ton of polymer you use. Don't forget at 140 mu we cover a surface area about 20% more than films which are 180 mu thick.
2. We make it last longer. Our standard UV warranty on DuraLight is 4 years.
3. We make it using carbon neutral energy. All of our polythene is made from either wind or solar generated electricity.
4. All of our film is made from virgin polymer and is highly sought after by polythene recycling companies.



Data Sheets Explained

Data sheets are not something that many polythene manufacturers publish. This makes it very difficult for you to compare apples with apples. They all look the same, they all feel the very similar but which is the best for you. So this is a simple explanation of what they mean.

1- The top box shows the description, then the thickness (10 microns are 10/100ths of a millimetre).

2-Next is what they're made from. (Resins) PE is a short chain molecule, but mLLDPE is a long chain molecule, and the reason why our films are very strong. Its more expensive than pure PE but enables us to make thinner films which are stronger than thick PE films.

3-The \pm is a EU standard that they have to pass. Ours is never more than $\pm 5\%$.

4- Below that are 2 figures normally 300/80. These refer to the resistance to Sulphur (EN norm 300ppm) and Chlorine before they break down. **NEW for season 2017- Sulphur resistance in all Duralight films increased to 700 ppm.**

5- Then comes the mechanical strength. The tensile strength is the amount of force taken to tear the film once you have punctured it. This is measured in mega pascals . 1 mega pascal is the equivalent force of 10 kgs per sq cm. Machine is along the tunnel and transverse is across it.

6- Elongation is what it says and is a % elongation before it breaks.

7- Puncture resistance is the force in grams taken by a 45mm diam rod to puncture the film . DuraLight is very strong.

8- Optical properties give you the percentage of light in the PAR 400-700 nms range.

9- We only measure the diffusion in the PAR range which is why our diffusion level is sometimes lower than our competitors who sometimes measure the total light transmission.

10- refers to the averaged out amount of UV radiation in the 300-390 range.

11- And finally the IR transmission. This applies to the percentage of infra red that it retains within the tunnel. The lower the number the more efficient is the film and the warmer the tunnel in the winter.

At XL we don't have a 1 size fits all policy. Different crops and scheduling require different optical transmissions. That's why we offer the biggest range of films in the UK. And it doesn't stop there because , subject to a minimum tonnage, we can make any film you like. Any thickness, any width and we can even make films to fit the length of your tunnels. We can make it with all the characteristics of our fixed tunnel films, Ultra clear (ChrystalTherm) or SuperThermic (see the graph below).

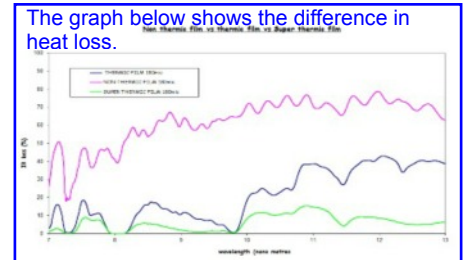
STOCK

We keep a fair amount of stock for smaller orders. Larger orders we try to get delivered direct so that we keep the transport cost down. We have made over 30 different widths in the past year so we can't keep every size in stock but all the common sizes we endeavour to keep some of.

PRICES Our margin on Duralight is very small and goes both up and down according to the price of the raw materials. And obviously the transport cost on large amounts is less pro

rata than small amounts.

SO FOR THE VERY BEST PRICES PHONE US ON 07714 584016



DuraLight Diffused

All soft fruit and stone fruit as well as cut flowers

Suitable for



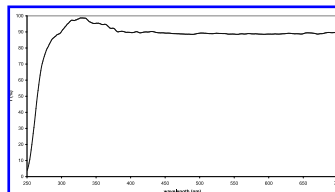
and

Use for main season crops

SunMaster DuraLight uses a mineral barrier which gives it a slightly milky appearance. Not only does it diffuse the light and reflect the near infra red (from the sun) but the light also penetrates better to the lower leaves of the plant which makes for a more efficient plant because all of the leaves are photosynthesising. This lowers the leaf or fruit temperature (as well as the operators temperature) and with adequately ventilated structures the leaf/fruit or operators temperature can be lower inside the greenhouse than it is outside. This does not however lower the temperature when the sun is not shining brightly. Because of reduced water stress diffused films can lead to higher yields and reduced water consumption.

Research has also shown that the optical spectrum of DuraLight is the same inside the structure as outside in the field and this gives an earlier crop, higher brix levels and antioxidant levels and a longer shelf life.

The mechanical properties are outstanding and it is much stronger than many competitive films which are much thicker.



Made exclusively for XL Horticulture Ltd 2016

DuraLight

PLASTIKA KRITIS SA

PRODUCT DATA SHEET

PRODUCER PRODUCT	PLASTIKA KRITIS SA KRITIFIL UV 2495		
DESCRIPTION	3-layer, long-life, colorless, UV- high strength, medium diffusing greenhouse film		
RESIN(S)	m-LDPE, EVA		
NOMINAL THICKNESS (mic)	140		
AVERAGE THICKNESS TOLERANCE	± 15%		
THICKNESS TOLERANCE AT ANY POINT	300 / 80		
MECHANICAL PROPERTIES			
	TYPICAL VALUES	VARIATION	TEST
TENSILE STRENGTH AT BREAK			
*MACHINE	30	• 5%	EN ISO 527-3
*TRANSVERSE	30	• 5%	EN ISO 527-3
ELONGATION AT BREAK			
*MACHINE	600	• 5%	EN ISO 527-3
*TRANSVERSE	650	• 5%	EN ISO 527-3
IMPACT RESISTANCE (FLAT)	1200	• 5%	ISO 7765-1 (A)
OPTICAL PROPERTIES			
	TYPICAL VALUES	TEST METHOD	
Total light transmission (400-700	~ 89-90	EN-2155-5	
Diffusion (400-700 nm)	45	± 5%	EN 2155-9
UV transmission (300-390 nm)	> 60	INTERNAL METHOD	
Infrared Transmission (7-13 µ)	n/a	EN 13206 § 8,9	

Version 151119



We hereby certify that the product conformed as per the above, meets the standard manufacturing specifications, according to the plans established by our Quality System based on ISO 9001:2008.

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DuraLight

Made exclusively for XL Horticulture Ltd 2016

PRODUCT DATA SHEET

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DESCRIPTION	3-layer, long-life, colorless, UV- high strength, medium diffusing greenhouse film
RESIN(S)	m=LLDPE, EVA
NOMINAL THICKNESS (mic)	140
AVERAGE THICKNESS TOLERANCE	± 15%
THICKNESS TOLERANCE AT ANY POINT	300 / 80

MECHANICAL PROPERTIES	TYPICAL VALUES	VARIATION	TEST
TENSILE STRENGTH AT BREAK			
•MACHINE	30	± 5%	EN ISO 527-3
•TRANSVERSE	30	± 5%	EN ISO 527-3
ELONGATION AT BREAK			
•MACHINE	600	± 5%	EN ISO 527-3
•TRANSVERSE	650	± 5%	EN ISO 527-3
IMPACT RESISTANCE (FLAT)	1200	± 5%	ISO 7765-1 (A)

OPTICAL PROPERTIES	TYPICAL VALUES	TEST METHOD
Total light transmission (400-700 nm)	~ 89-90	EN-2155-5
Diffusion (400-700 nm)	18 ± 5%	EN 2155-9
UV transmission (300-390 nm)	> 60	INTERNAL METHOD
Infrared Transmission (7-13 μ)	n/a	EN 12066 § 8,9

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DuraLight Clear

All soft fruit and stone fruit as well as cut flowers

Suitable for



and

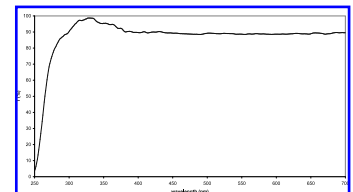
Use for main season crops

SunMaster DuraLight Clear is the same in all respects to the diffused, except that it doesn't have a diffuser. This makes it slightly warmer earlier in the year than the diffused, but we make it for those growers that like a clear film.

The mechanical and optical properties are exactly the same over the UV and PAR range.

Research has shown that the optical properties of DuraLight is the same inside the structure as in the field and this gives an earlier crop (approximately 1 week) higher brix and anti oxidant levels and a longer shelf life to the fruit, due to the fact that the cell walls are thicker. We also know that the plants have a better root structure.

The mechanical strength properties are outstanding and it is much stronger than many competitors films which are much thicker.



DuraLight Cool

All soft fruit and stone fruit as well as cut flowers

Suitable for



and

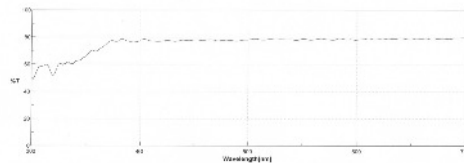
Use for delaying the season or fruiting

SunMaster DuraLight Cool uses the latest thermal heat barrier which is a microfine aluminium particle. Practical experience in hot countries (Kenya) has shown this diffuser to be the most efficient cooler and make as much as a 25% lower temperature difference on a hot day.

As we all know premium prices are achieved when the crop is either earlier or later than the main crop and DuraLight Cool is being successfully used by growers to delay ripening of a range of crops here in the UK. .

Research has also shown that the spectrum of DuraLight is the same inside the structure as outside in the field and this gives an earlier crop, higher brix levels and antioxidant levels and a longer shelf life.

The mechanical properties are outstanding and it is much stronger than many competitive films which are much thicker.



DuraLight Cool

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PLASTIKA KRITIS SA

PRODUCT DATA SHEET

PRODUCER PRODUCT	PLASTIKA KRITIS SA KRITIFIL UV 2475
DESCRIPTION	3-layer, long-life, colorless, UV-open, high strength, medium diffusing greenhouse film
RESIN(S)	m-LDPE, EVA
NOMINAL THICKNESS (mic)	140
AVERAGE THICKNESS TOLERANCE	± 5% on nominal thickness
THICKNESS TOLERANCE AT ANY POINT	± 15%
SULFUR / CHLORINE LIMITS (ppm)	300 / 80

MECHANICAL PROPERTIES	TYPICAL VALUES	VARIATION	TEST METHOD
TENSILE STRENGTH AT BREAK (MPa)			
-MACHINE DIRECTION	30	• 5%	EN ISO 527-3
-TRANSVERSE DIRECTION	30	• 5%	EN ISO 527-3
ELONGATION AT BREAK (%)			
-MACHINE DIRECTION	600	• 5%	EN ISO 527-3
-TRANSVERSE DIRECTION	650	• 5%	EN ISO 527-3
IMPACT RESISTANCE (FLAT) (gr)	1200	• 5%	ISO 7765-1 (A)

OPTICAL PROPERTIES	TYPICAL VALUES	TEST METHOD
Total light transmission (400-700 nm)(%)	~ 78-80	EN-2155-5
Diffusion (400-700 nm) (%)	45	± 5% EN 2155-9
UV transmission (300-390 nm) (%)	> 60	INTERNAL METHOD
Infrared Transmission (7-13 μ) (%)	n/a	EN 13206 § 8.9

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DuraLight Thermic

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PRODUCT DATA SHEET

PRODUCER	PLASTIKA KRITIS SA		
PRODUCT	KRITIFIL TUV 3495		
DESCRIPTION	3-layer, long-life, thermic, colorless, UV-open, high strength, medium diffusing greenhouse film		
RESIN(S)	m+LLDPE, EVA		
NOMINAL THICKNESS (mic)	140		
AVERAGE THICKNESS TOLERANCE	± 5% on nominal thickness		
THICKNESS TOLERANCE AT ANY POINT	± 15%		
SULFUR / CHLORINE LIMITS (ppm)	300 / 80		
MECHANICAL PROPERTIES			
	TYPICAL VALUES	VARIATION	TEST METHOD
TENSILE STRENGTH AT BREAK (MPa)			
+MACHINE DIRECTION	30	• 5%	EN ISO 527-3
+TRANSVERSE DIRECTION	30	• 5%	EN ISO 527-3
ELONGATION AT BREAK (%)			
+MACHINE DIRECTION	600	• 5%	EN ISO 527-3
+TRANSVERSE DIRECTION	650	• 5%	EN ISO 527-3
IMPACT RESISTANCE (FLAT) (gr)	1200	• 5%	ISO 7765-1 (A)
OPTICAL PROPERTIES			
	TYPICAL VALUES		TEST METHOD
Total light transmission (400-700 nm)(%)	~ 88-89		EN-2155-5
Diffusion (400-700 nm) (%)	45	± 5%	EN 2155-9
UV transmission (300-390 nm) (%)	> 60		INTERNAL METHOD
Infrared Transmission (7-13 μ) (%)	<17		EN 13206 § 8.9

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DuraLight Thermic

All soft fruit and stone Fruit as well as cut flowers

Suitable for



and

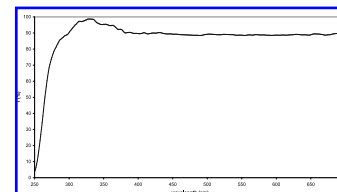
Crops that require higher temperatures in Spring or later in the year.

If early cropping is what you are after then DuraLight Thermic is what you need. The lower the number in the InfraRed transmission data then the more heat the polythene retains. (See page 3) This retains the heat at night so that not only do you get more degree days into the crop but there is also less condensation and therefore disease.

The optical spectrum is excellent in the UV and PAR wavelengths so that the UV is also helping with earliness, brix, antioxidants and shelf life.

Mechanical strength is also extremely high, being stronger than many films which are thicker.

It is also diffused so that scorching is reduced and the plant photosynthesis better.



DuraLight Sulphur Safe

All soft fruit and stone fruit as well as cut flowers

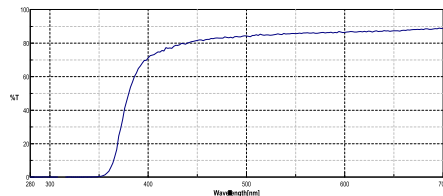
Suitable for  and

Everbearers or where there are a lot of chemicals used.

Over the past few years the burning of sulphur has become very common. Sulphur is antagonistic to the UV stabilisers, shortening the life of the film by as much as 50%. SunMaster SulphurSafe™ is a non-diffused film with a slightly green tint, but this does not have an adverse effect on crops grown under this film.

SulphurSafe™ is exclusively available from XL Horticulture and will withstand as much sulphur as you want to burn or spray.

We only stock a small amount of this film for immediate delivery but we have the facility to bespoke make the exact lengths and widths of covers that you need - subject to a minimum tonnage.



DuraLight Sulphur Safe

Made exclusively for XL Horticulture Ltd 2016

PLASTIKA KRITIS SA

PRODUCT DATA SHEET

PRODUCER	PLASTIKA KRITIS SA
PRODUCT	KRITIFIL UV 2692 AD
DESCRIPTION	3-layer, long-life, (light greenish tint) high strength, sulfur resistant, anti-dripping greenhouse film m=LLDPE, PE, EVA
RESIN(S)	
NOMINAL THICKNESS (mic)	150
AVERAGE THICKNESS TOLERANCE	± 5% on nominal thickness
SULFUR / CHLORINE LIMITS (ppm)	No limit / 100
TENSILE STRENGTH AT BREAK (MPa)	TYPICAL VALUES VARIATION TEST METHOD
-MACHINE DIRECTION	27 • 5% EN ISO 527-3
-TRANSVERSE DIRECTION	27 • 5% EN ISO 527-3
ELONGATION AT BREAK (%)	
-MACHINE DIRECTION	550 • 5% EN ISO 527-3
-TRANSVERSE DIRECTION	650 • 5% EN ISO 527-3
IMPACT RESISTANCE (FLAT) (gr)	1000 • 5% ISO 7765-1 (A)
OPTICAL PROPERTIES *	TYPICAL VALUES TEST METHOD
Total light transmission (400-700 nm)(%)	~ 89-90 EN 2155-5
Diffusion (400-700 nm) (%)	20 ± 2% EN 2155-9
UV transmission (300-390 nm) (%)	n/a INTERNAL METHOD
Infrared Transmission (7-13 µ) (%)	n/a EN 13206 § 8.9

* Optical properties are measured after thoroughly removing any anti-drip additive from the film's surface

Version 351119



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DuraLight Angus

Made exclusively for XL Horticulture Ltd 2016

PRODUCT DATA SHEET

PRODUCER	PLASTIKA KRITIS SA
PRODUCT	KRITIFIL TUV 3928 AD
DESCRIPTION	3-layer, long-life, colorless, thermic, UV-open, high strength, medium diffusion anti-dripping greenhouse film
RESIN(S)	m-LLDPE, EVA
NOMINAL THICKNESS (mic)	150
AVERAGE THICKNESS TOLERANCE	± 5% on nominal thickness
THICKNESS TOLERANCE AT ANY POINT	± 15%
SULFUR / CHLORINE LIMITS (ppm)	700 / 150
MECHANICAL PROPERTIES	TYPICAL VALUES VARIATION TEST METHOD
TENSILE STRENGTH AT BREAK (MPa)	
-MACHINE DIRECTION	27 • 5% EN ISO 527-3
-TRANSVERSE DIRECTION	27 • 5% EN ISO 527-3
ELONGATION AT BREAK (%)	
-MACHINE DIRECTION	550 • 5% EN ISO 527-3
-TRANSVERSE DIRECTION	650 • 5% EN ISO 527-3
IMPACT RESISTANCE (FLAT) (gr)	1200 • 5% ISO 7765-1 (A)
OPTICAL PROPERTIES *	TYPICAL VALUES TEST METHOD
Total light transmission (400-700 nm)(%)	~ 89-90 EN 2155-5
Diffusion (400-700 nm) (%)	50 ± 2% EN 2155-9
UV transmission (300-390 nm) (%)	> 60 INTERNAL METHOD
Infrared Transmission (7-13 μ) (%)	< 19 EN 13206 § 8.9

* Optical properties are measured after thoroughly removing any anti-drip additive from the film's surface

Version 151119



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DuraLight Angus

All soft fruit and stone fruit as well as cut flowers

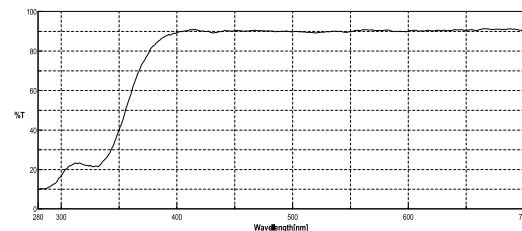
Suitable for



and

SunMaster DuraLight Angus is specially designed for the fixed tunnels that soft fruit growers use in Scotland. 11.1m wide x 110m long. It has the same tough DuraLight specification but is also thermic and anti-drip. Its lifetime expectancy is also 8-10 years and a guarantee of 5 years. It has a 700 ppm resistance to sulphur, but we have the ability to make this film as a sulphur safe or a DuraCool product as well. We stock a fair amount of the standard film for immediate delivery. It is also diffused which gives lower temperatures inside the tunnel in very hot weather.

As well as the DuraLight Angus Covers we also stock Angus Tunnels vent film. 1.2m wide x 190m long rolls to cover your ventilation holes and can make other widths and lengths if required.



Eazy Hinge/Qclip



Eazy clips have a patent applied for system which makes them both easy to open and close. The cutout on the back of the clip makes it easy to close without compromising on the strength of the clip. Several clients have commented on the fact that they are tighter and fit better than a conventional hinge clamp. But now you can have 1 clip which is both a P clip and a hinge clamp all in one. Sold in boxes of 200 with or without nuts bolts and tech screws.

Top Wire Dropper Bar

Every Year there are thousands of £'s worth of poly sheets prematurely damaged by straining wires fixed to the hoop. XL's new patent applied for wire dropper should reduce that dramatically. It bolts and/or to the 40mm hoop and the wire/strap or rope is held in place by the serrated bracket at the bottom, 15cms below the hoop.

No more rope burn or chafing of the polythene on the wire. Manufactured from 2.5mm high tensile steel, hot galvanised after manufacture, it takes 100 newtons to create a 1cm deflection. Sold in bags of 100 with or without nuts bolts and tech screws.



Side and Door Ventilation Systems

All soft fruit and stone fruit as well as cut flowers

Suitable for



and



A side vent/door gearbox assembly which is hand operated by an endless chain. Can be retrofitted to any straight sided tunnel or greenhouse. A clutch inside the gearbox holds the central torsion bar steady at any position you choose between fully open and fully closed. It comes complete with a cage which allows it to run up and down a 25mm guide rail. The torsion bar is 3.5m long galvanised steel, swaged at one end so you can create a continuous bar. Join together with a self drilling screw supplied with each tube. Use the same torsion bar as a weight bar at the bottom of the side vent poly. Maximum recommended length (with 25mm tube) is 35metres. The clips are spring plastic with rounded edges so that they don't damage the polythene. We recommend 1 clip every 20 cms.

If you are erecting the door system on a freestanding tunnel we recommend that you use one of our door frame spacers top and bottom of each upright.



Our 25mm plastic clip does not damage your polythene and is used for side vent or door systems.

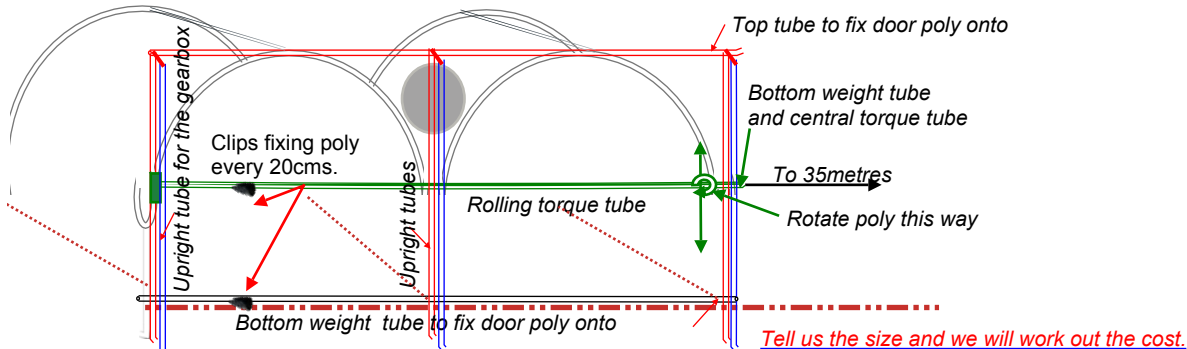


Because of the design of the system and the strength of our poly you don't need reinforced material to create your doors.

How to fix your XL door systems

All soft fruit and stone fruit as well as cut flowers

Suitable for



1. Fix top tube in place with 2 Q clips to head of tunnel end. Join all tubes together with the self drilling screws.
2. Drive into the ground the uprights against the tunnel legs and fix together with clamps. Use door frame spacers top and bottom fixed to each tube with a self drilling screw.
3. Drive into the ground the external guide uprights. (If any of the legs are not long enough you can join the tubes together and cut to length.)
4. Slide the gearbox over the end upright and position it slightly below half way up. It can be loosely positioned there by snapping a 25mm clip onto the upright tube.
5. Fix each 2 uprights together at the head the door frame spacer using self drilling screws.
6. Now clip the door poly to the header tube with plastic spring clips every 20cm. (To create a draught free header pull the door poly right over the top tube and fix into place on the end hoop of the tunnel with spring clips.)
7. Connect one central torque tube to the gearbox by drilling a 10mm hole through the tube and securing it with the bolt provided.
8. Fix the poly to the torque tube with the plastic clips every 20cm. Make sure that the tube follows the level of the top tube.
9. Continue to add tubes, securing them together with the self drilling screws, and fix poly onto the tube as you go.
10. When you have added all the torque tubes and fixed the poly in place put 2 turns on the central tube.
11. Now fix the bottom weight tube into place and secure the poly every 20cms with clips. Fix the poly to the tube at ground level leaving any excess poly to crush onto the ground as a seal.
12. You can cut round circles into the polythene between the 2 tunnels to allow excess wind to escape from the gully.

Omega Spring Clips



Omega Spring Steel poly fixing clips.

All spring steel clips look the same - but they're not. The thickness of steel and the distance that they come around the hoop makes a terrific difference to how well your poly stays on the tunnel. Couple that with a galvanised finish for extra rust resistance and you have a quality clip at economy prices. 2 sizes available 30/35mm and 40mm. Sold in boxes of 500

Quick Release Tape



XL's Quick release tape does two things. It allows you to quickly de skin the tunnel when a gale is imminent and secondly spreads the grip of the clip so that the polythene lasts longer.

Manufactured from new 605 gsm woven/coated white pvc it blends in with the tunnel and will last for many years. 125mm wide X50m long. Sold singly.

Top Wire Clips

Spring Steel Top Wire Clips

Used to fix wire to your hoops to keep the hoops at a constant distance apart. Fix your wire to the ends first and then when you use the top wire lip it puts extra tension on the wire. A galvanised finish for extra rust resistance and you have a quality clip at economy prices.

2 sizes available 35 and 40mm sold in bags of 1,000



Universal Plastic Clips

The universal clip is designed to hold stems or shoots of raspberries and vines. Multi adjustable the clip is uv stabilised so that it isn't too tight for soft growth. Sold in bags of 1000



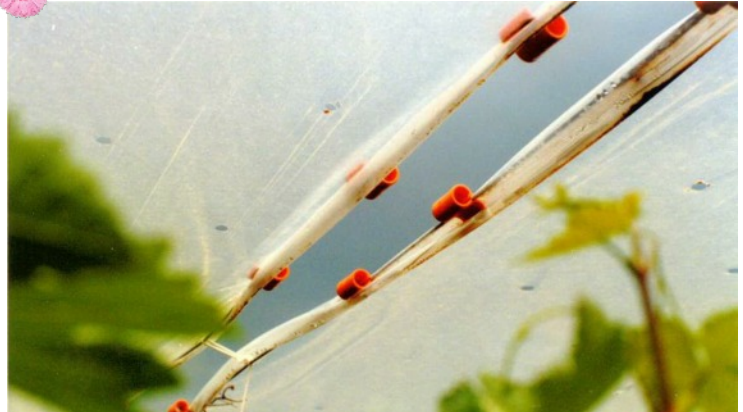
XL Poly Grip Clip

All soft fruit and stone fruit as well as cut flowers

Suitable for



XL's poly grip clip is designed to hold together 2 roofs of a high mobile (Spanish) tunnel to a single wire fixed in the valley. This holds the two sheets together giving a tight seal so that the tunnel stays warmer in the winter. Can also be used for bird net covers. (Seen here on a



vine/cherry/blueberry rain shelter with a gap down the centre.)



High Tensile Wire

High tensile wire 2.5mm.

25 kg (approx 610 metres).

Fruit/Vine Rain Shelters

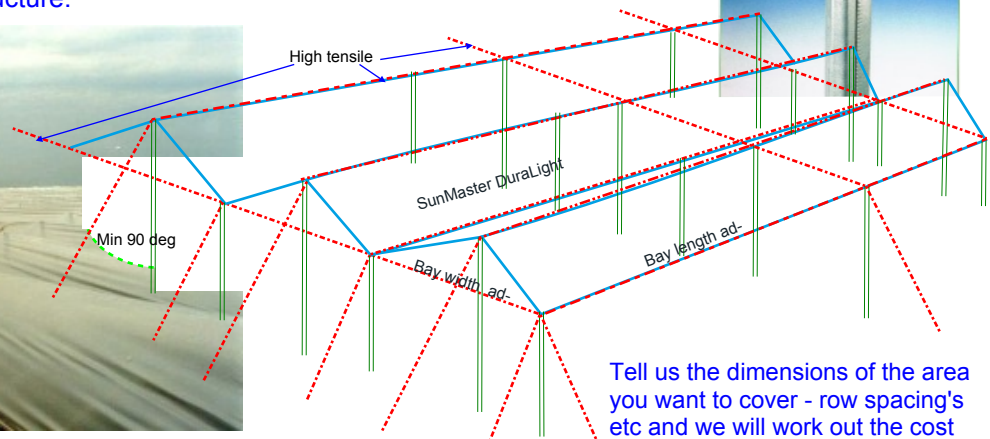
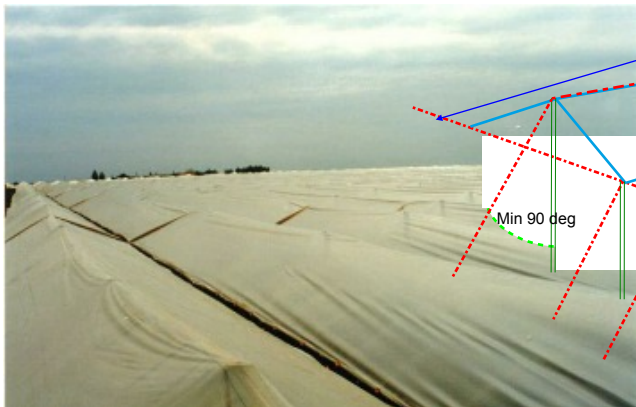
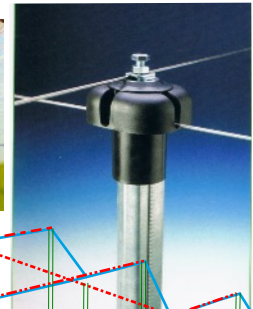
All soft fruit and stone fruit as well as cut flowers

Suitable for



The XL fruit protection system is suitable for all soft fruit crops - cherry - blueberry - vines, and can be used as a total protection with the use of DuraLight polythene roofs or bird or shade protection with the use of CosyTex. Costs approximately 15% of the cost of a tube tunnel. Convert normal 40mm steel into a secure wire support system with our unique post caps. The distance between the supports/the width of the structure and the height is adjustable to suit your crop/row/planting distances. You can put 1 or 2 posts/wires in the valley so that you can leave the valley open for ventilation or you can use 1 wire and keep the valley closed. Since much of the structure is only wire it is a very cost effective method of creating a structure.

Post Cap



Tell us the dimensions of the area you want to cover - row spacing's etc and we will work out the cost

Truss Support Tape

We have 2 types of truss support tape for table top systems. Normal green/brown tape 200m long X45mm wide is designed to last for 4 seasons, but has been known to last longer. Its a 135 gram per sqm. PVC coated scrim and is immensely strong. It needs a 1.5% stretch put into it as you install it and that is the extent of its stretching. Heavy duty white tape is 50m long X45mm wide and is made from 605 gram per sq metre PVC coated cloth and has no stretch. It should last in excess of 10 years.

Description	Width	Length
Normal Duty	45mm	200m
Heavy Duty	45mm	50m



Truss Support Tape Clips



Truss Support Tape is never the length of the tunnel. Tying it together is not a very elegant solution so we have upsized the clip that is commonly used for pallet strapping so that it fits a

45mm wide truss support tape. It keeps the tape flat when you join it and allows you to join as many lengths as you want to fit your tunnel. It also allows tensioning along the row rather than just at one point, on the end of a row. Made from high tensile stainless steel so that it won't ever rust, it's a long term investment. Sold in bags of 100.

Tape Retention Clip



Once you remove the poly for the winter and the wind blows through the tunnels it vibrates the tape which wears out. Using the simple retention clip it can no longer vibrate on the truss support bracket and the life of the tape will be extended. Manufactured from stainless steel wire it is sold in bags of 1000.

EazyGrip Rope Puller Tiger Rope



The Eazy Grip Rope Puller™ ('V' cleat) uses the same technology used by sailors for centuries. The V grips the rope without causing any damage to the rope itself (see picture right). It is simple and speedy, fits in the palm of your hand and costs a fraction of the price of an ascender as used for climbing. Sold singly £7.50 each.

Tiger Rope is a 6mm PolySteel rope. XL's difference is that 1 of the strands is a different colour. We change the colour every year, so that you can easily identify what year you bought the rope. Top quality rope at sensible prices. Sold on pallets of 240 but we can also sell singly.

8mm top wire rope is a single colour but is 33% thicker to stand up to the extra strain placed on the tunnel ridge.



Tie Down Tape

It doesn't chafe the film, spreads the load and being made from polyester it doesn't stretch. It's naturally UV stable and will last for many years. At 13mm wide it is narrow enough for you to use as you would a rope or used in conjunction with the tensioning buckle it gives an infinite amount of tension and allows you to just tension the strap in the areas that you need to. Ideal as a top wire strap.

Insect Mesh

A 100% Polyester anti insect netting the hole size for which is 0.78 mm x 0.61mm which stops all kinds of thrips, Drosophila, carrot root fly etc. Polyester is naturally UV stable and so will it last for many years making it useful on structures as well as on the soil as a complete physical insect block net.

A wide range of nets is available - ask for details.

Anti Bird Net

All soft fruit and stone fruit as well as cut flowers

Suitable for



A 100% HDPE anti bird netting which weighs 16 grams per sq. metre. Life expectancy in Northern Europe 6 years continuous life. This knitted net is extremely strong and has a 25mm hole size.



Width	Length
4m	200m
8m	200m
12m	200m
20m	100m

Raspberry Support Net



XL Horticulture source nettings from manufacturers all over Europe and we even have some nets made exclusively for us. No matter what your netting requirements, we will be able to supply what you are looking for.

Raspberry Netting is available in rolls of 500m long and is made from a mixture of PP, HDPE with UV stabilisers using an extrusion process.

We stock 2.05m net with a mesh size of 170mm x 150mm although other sizes are available.

Polythene Repair Tape

XL's polythene repair tape uses an acrylic adhesive which bonds under pressure to the surface of the film and doesn't creep in hot weather. Because it is also made from clear polythene it also contracts at the same

rate as the cover in the winter and looks almost invisible on the repair.

Length	Width	Price	No. Per Box
25 metres	50mm	£2.51	30
25 metres	75mm	£3.73	20
25 metres	100mm	£4.99	15
25 metres	150mm	£7.47	10
25 metres	300mm	£14.94	5

All prices ex works and + VAT



CosyTex Fleece

CosyTex is made from a knitted thermal polythene. It doesn't puddle, and allows moisture to pass through. It also allows moist air to escape so that disease is reduced. It lasts many seasons and is strong enough to allow workers to pick up and move the sheet every day.

Use on field scale for veg, on nursery stock, bedding and soft fruit.

We are also having great success on vineyards suspending it on wires fixed to the top of the post and held in place with our poly grip clips. It gives enough extra degree days to be able to grow some of the more marginal varieties of grapes. And it costs very little to do.



Field scale covering over brassicas/strawberries



Cover over strawberry plants - inside or out table tops or in the ground



Vineyard cover



Poly Grip Clips

Width in m	Length in m	Price
2	200	£119.27
4	200	£238.53
6	200	£384.16
8	200	£512.51
10	100	£320.13
12	100	£384.16
16	100	£512.51

All Prices + VAT

Deliveries at cost

SPECIFICATION

Weight	38 gsm
Light transmission	>86%
Strength	
Along the row	3400 newton metres
Across the row	3900 newton metres
Life - permanent use	4 years
Life - seasonal use	Approx 10 seasons
Hole size- Approx	0.97X1.39mm

