Tufflite IV™

Tufflite IV™ is a high quality PAR (photosynthetic active radiation) film offering high clarity, outstanding durability and easy installation. Retains Clarity— Tufflite IV™ stays clear without discoloration or cracking. Outstanding Durability— proprietary manufacturing yields tough sheeting that resists tears, punctures and UV degradation. Easy Installation— heavy duty packing protects every roll and improved folding makes installation fast and easy.



Fold Code: CF= Center Fold CFF= Center Fold Folded CFDF= Center Fold Double Folded CSTF= Center-slit Tubing Folded STDF= Slit Tubing Double Folded **Fold Code:** TDF= Tubing Double Folded

See page 13 for proper poly sizing for your greenhouse.

Tufflite IV™ Greenhouse Film

Item	Width	Mil	Length	Fold	Weight/lbs.
061-6161001	16'	6	100'	CFDF	48
061-6201001	20'	6	100'	CSTF	60
061-6241001	24'	6	100'	CSTF	72
061-6241101	24'	6	110'	CSTF	79
061-6241501	24'	6	150'	CSTF	110
061-6281001	28'	6	100'	CSTF	84
061-6281501	28'	6	150'	CSTF	126
061-6321001	32'	6	100'	STDF	96
061-6321101	32'	6	110'	STDF	106
061-6361001	36'	6	100'	STDF	108
061-6361101	36'	6	110'	STDF	118
061-6401001	40'	6	100'	STDF	120
061-6401501	40'	6	150'	STDF	180
061-6421001	42'	6	100'	STDF	126
061-6421101	42'	6	110'	STDF	140
061-6421501	42'	6	150'	STDF	190
061-6481001	48'	6	100'	STDF	144
061-6481501	48'	6	150'	STDF	216
061-6501001	50'	6	100'	STDF	150
061-6501501	50'	6	150'	STDF	225
061-6561001	56'	6	100'	STDF	168

Tufflite IV™ Greenhouse Film Tubes

Item	Width	Mil	Length	Fold	Weight/lbs.
061-6201101T	20'	6	110'	TDF	132
061-6201501T	20'	6	150'	TDF	180
061-6241001T	24'	6	100'	TDF	144
061-6241501T	24'	6	150'	TDF	216



Tufflite Infrared™

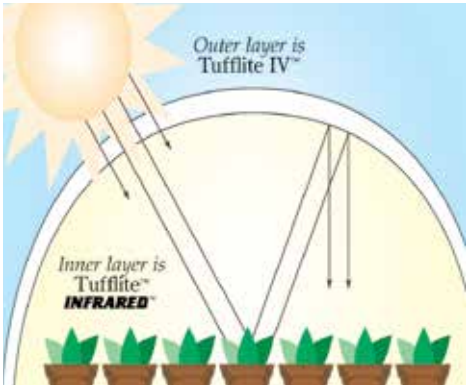
Designed to last up to four years, Tufflite Infrared contains both the Drip-Less feature and an additive that will delay the exit of infrared waves from the greenhouse— maintaining heat factors and thus saving energy.

Reduced Energy Costs— improved nighttime heat retention allows for lower fuel bills.

Improved Light Diffusion— reduces shadows.

Getting the Best of Both Worlds
Combine the extraordinary clarity of Tufflite™ with Tufflite Infrared™ and reap the rewards. When using sheeting (vs. Tubing), your combination of Tufflite IV™ on the outside and Tufflite Infrared™ on the inside gives you:

- The Highest Light Transmission
- Anti-Condensation Protection
- Optimum Energy Savings



Tufflite Infrared™ Greenhouse Films

Item	Width	Mil	Length	Fold	Weight/lbs
062-6201001	20'	6	100'	CSTF	60
062-6241001	24'	6	100'	CSTF	72
062-6281001	28'	6	100'	CSTF	84
062-6321101	32'	6	110'	STDF	106
062-6321501	32'	6	150'	STDF	145
062-6361001	36'	6	100'	STDF	108
062-6401001	40'	6	100'	STDF	120
061-4658	40'	6	110'	STDF	133
062-6401501	40'	6	150'	STDF	180
062-6421001	42'	6	100'	STDF	126
062-6421101	42'	6	110'	STDF	140
062-6421501	42'	6	150'	STDF	190
062-6481001	48'	6	100'	STDF	145
062-6481501	48'	6	150'	STDF	216
062-6501001	50'	6	100'	STDF	150
062-6501501	50'	6	150'	STDF	225

Tufflite Infrared™ Film Tubes

Item	Width	Mil	Length	Fold	Weight/lbs.
062-6241101T	24'	6	110'	TDF	160
062-6241501T	24'	6	150'	TDF	216

Fold Code: CSTF= Center-slit Tubing Folded
STDF= Slit Tubing Double Folded TDF= Tubing Double Folded



Sun Master® Films

Sun Master® greenhouse films combine long lifetime, superior strength, and high light transmission with optional characteristics that transform the film to an active contributor to plant protection, growth, and productivity.

Sun Master® IV Greenhouse Film

- 6 mil
- 3 layer co-extruded
- Ultra Violet stabilized for up to four-years of film life
- Provides superior strength, high light transmission and better film properties (folds, tear & puncture)
- 90% PAR light transmission

Item	Width	Mil	Length	Fold	Weight/lbs.
SMIV614100	14'	6	100'	4A	42
SMIV616100	16'	6	100'	4A	48
SMIV620100	20'	6	100'	4B	60
SMIV624100	24'	6	100'	4B	72
SMIV624110	24'	6	110'	4B	79
SMIV624150	24'	6	150'	4B	79
SMIV628100	28'	6	100'	4B	84
SMIV628110	28'	6	110'	4B	92
SMIV628150	28'	6	150'	4B	126
SMIV628200	28'	6	200'	4B	168
SMIV632100	32'	6	100'	6	96
SMIV632110	32'	6	110'	6	106
SMIV632150	32'	6	150'	6	144
SMIV636100	36'	6	100'	6	108
SMIV636110	36'	6	110'	6	118
SMIV636150	36'	6	150'	6	162
SMIV640100	40'	6	100'	6	120
SMIV640150	40'	6	150'	6	180
SMIV642100	42'	6	100'	6	126
SMIV642110	42'	6	110'	6	138
SMIV642150	42'	6	150'	6	190
SMIV648100	48'	6	100'	8	144
SMIV648110	48'	6	110'	6	158
SMIV648150	48'	6	150'	8	216
SMIV650100	50'	6	100'	8	150
SMIV650150	50'	6	150'	8	225
WHITE					
SMIV628100W	28'	6	100'	4B	84
SMIV632100W	32'	6	100'	6	96
SMIV640100W	40'	6	100'	6	120
SMIV642100W	42'	6	100'	6	126
SMIV648100W	48'	6	100'	8	144

Fold Code: 4A = C Fold 4B = U-Fold 6 = Double U-Fold 8= Multi U-Fold





Sun Master® IV Greenhouse Tubes

Item	Width	Mil	Length	Fold	Weight/lbs.
SMIV620100T	20'	6	100'	4B	120
SMIV624100T	24'	6	100'	4B	144
SMIV624110T	24'	6	110'	4B	158
SMIV624150T	24'	6	150'	4B	216

Fold Code: 4A = C Fold 4B = U-Fold 6 = Double U-Fold 8= Multi U-Fold

Savings

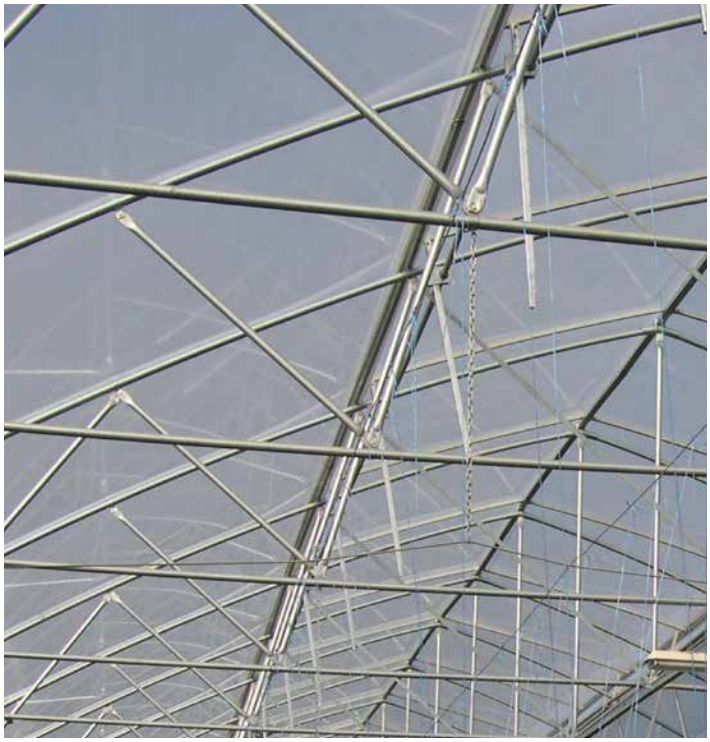
PURCHASE	SAVE
$750.00	8%
$1,500.00	13%
$2,500.00	18%

Savings applies to Polyethylene Film

Sun Master® Films

The advantages of thermal films are:

- Smoother temperature drop and higher night temperatures overall
- Reduced energy consumption for heating
- Higher crop yield
- Earlier harvesting
- Better quality of crops



Sun Master® Thermal

- 6 Mil
- 3 layer co-extruded
- Ultra Violet stabilized for up to four-years of film life
- Infrared (IR) Retention film that provides excellent diffusion
- Provides superior condensation control
- A premier thermal film providing the grower with the ability to save on energy costs
- 87% PAR light transmission
- 58% light diffusion

Item	Width	Mil	Length	Fold	Weight/lbs.
SMTHM624100	24'	6	100'	4B	72
SMTHM624150	24'	6	150'	4B	110
SMTHM628100	28'	6	100'	4B	84
SMTHM628150	28'	6	150'	4B	126
SMTHM632100	32'	6	100'	6	96
SMTHM632150	32'	6	110'	6	106
SMTHM632110	32'	6	110'	6	105
SMTHM636100	36'	6	100'	6	108
SMTHM636150	36'	6	150'	6	162
SMTHM640100	40'	6	100'	6	120
SMTHM640150	40'	6	150'	6	180
SMTHM642100	42'	6	100'	6	126
SMTHM642150	42'	6	150'	6	190
SMTHM648100	48'	6	100'	6	145
SMTHM648110	48'	6	110'	6	158
SMTHM648150	48'	6	150'	6	218
SMTHM650100	50'	6	100'	8	150

Sun Master® Thermal Tubes

Item	Width	Mil	Length	Fold	Weight/lbs.
SMTHM620100T	20'	6	100'	6	120
SMTHM624100T	24'	6	100'	6	144
SMTHM624150T	24'	6	150'	6	216

Fold Code:
4A = C Fold 4B = U-Fold 4C – Gusseted fold 6 = Double U-Fold 8= Multi U-Fold



Sun Master® EVO2 and EVO AC

EVO AC is now available in Evo2 products!





Evo2 during the separation and inflation process



Air blowing mechanism



Classic AC after 24 months



EVO AC after 4 years



Mist under Classic AC



EVO AC anti-mist effect

EVO2

Changing the Game of Double Poly

Evo2 is a single, 8-layer, 12 mil., 4-year film that separates into 2 different 6 mil films after installation on the greenhouse by blowing air between its layers. Essentially it functions as a tube with different properties between top and bottom, at widths up to 42', which did not exist until now. Evo2 is a patented technology that makes cladding of double-inflated greenhouses easier, faster, safer and more economical.

The film is equipped with our novel EVO AC® anti-condensate technology which lasts as long as the guaranteed life of the film and does not cause mist!

After separation:

The outer film is extremely tough, crystal clear, and UV Open, able to withstand mechanical stresses and maximize the amount of light in the greenhouse.

The inner film is diffusing, UV Open and thermal with Lifetime AC, to optimize light distribution in the greenhouse and minimize heat losses, condensation and mist.

Sizes available: 24', 28', 32', 36', 40' & 42'.

Item	Width	Mil	Length	Fold	Weight/lbs.
SMTHM1224110E2	24'	12	110'	4B	160 lbs.
SMTHM1232110E2	32'	12	110'	6	212 lbs.
SMTHM1242110E2	42'	12	110'	6	278 lbs.

Fold Code: 4B = U-Fold 6 = Double U-Fold

EVO AC

8-Layer Greenhouse Film!
A Revolution in Anti-Condensate Performance!

EVO AC® is a new range of anti-condensate greenhouse films made with 8-layer technology.

- Lifetime anti-condensate effectiveness
- No mist
- More light in the greenhouse
- AC fully active at very low temperatures
- AC active on smaller roof slopes
- Possibility to use the film for more than 4 years









Berry | bpi agriculture

Horticulture films that help your business grow

SUPER4™
Greenhouse Film

The Durability and Toughness You Need

Super 4™ is a super clear, super tough, longlife product that provides the best value in a 6-mil, 4-year greenhouse film. Super 4™ is also available with 55% white opacity in selected sizes.

- Outstanding light transmission, haze, and clarity ratings help optimize yield in greenhouse applications.
- A unique manufacturing process and advanced resin technology provide superior tear strength.
- Advanced UV stabilizers maximize physical properties and help protect film from chemical damage.
- Bee compatibility feature allows more of the UV spectrum to pass through, making it easier for bees to navigate and achieve more efficient pollination.

THERMAX™
Anti-condensate Film

Durability, Energy Savings, Plus Condensation Control

Thermax™ combines outstanding thermal qualities and exceptional condensation control properties in one revolutionary, diffused greenhouse film.

- Outstanding thermal properties keep the heat in by reducing radiant heat loss. Heaters consume less energy to maintain a set temperature leading to potential energy savings of 15–20%.
- Directional condensation control ensures the additive migrates to the surface facing the crop. This feature controls drips, maintains light transmission and enhances thermal benefit.
- Diffused light reaches plants from many angles while par light transmission remains the same, optimizing light distribution in the greenhouse.

LUMINANCE®
Tunnel Film

The Results You Want

LUMINANCE® has been specially engineered to give you the results you need from a highly diffused greenhouse and high tunnel film.

- Lowers greenhouse temperature by as much as 9°F when compared to standard film.
- Produces higher-yielding plants with stronger than normal root systems.
- Less demand for watering.
- Inhibits fungus spore development for healthier plants.
- Inhibits insect propagation.
- Prolongs the growing season.
- Allows for an earlier harvest—up to three weeks earlier harvests have been recorded.

Bee Friendly

Smarter Flexible Solutions for Horticulture

Premium Greenhouse and
High Quality Tunnel Solutions

www.bpihorticulture.com

Toll-Free 1-800-661-3606
Email: edmonton@rpc-bpi.com

rkw WHEN EXCELLENCE MATTERS KLERKS

K50 Clear 6mil (50 Month)

- Features clear HALS ultra violet light stabilizer
- Contains "Anti-Dust" additive that repels dirt and dust
- Strong EVA co-polymer resin for excellent durability

The innovative technologies that Klerk's introduced have now proven themselves throughout the U.S. particularly in the Eastern U.S. market. Klerk's use of co-extrusion techniques demonstrates that "no-drip" features will perform for years.

The Bottom Line

A greenhouse business day begins when the sun comes up and shines through the film you put between the sun and the money a greenhouse is trying to produce.

Greenhouse film is the least expensive but most important decision a grower can make for his greenhouse.

The sun is the only free energy resource available to the greenhouse.

Klerks innovative products help to manipulate this free energy to benefit your plants' growth, which financially affects the grower in the long run.

Klerks film is available to order by drop ship only.
Call for pricing and sizes.

Important Note: If 1 layer of IR film is used in a double layer installation, it should be applied as the inside layer.

K50-IR/AC 6mil (50 Month)

Has the same properties as K50 with the added advantages of:

- Lower heating costs
- Infrared retention and light diffusing system to reduce energy costs
- Holds in re-radiation at night
- Diffuses the sun's rays during the day to average leaf temperatures and reduces stress
- Earlier, faster growth due to higher usable light levels
- Lowers nighttime heating cost by capturing and re-radiating infrared heat that normally passes right through traditional greenhouse film

Klerk's 2-in-1 Film

- Offers the advantages of two sheets of greenhouse film in a single installation
- A value-added alternative to 20' and 24' tubes
- Available in: K50-IR/AC, and KooLite Plus
- Bottom layer can be pulled tightly to allow water to sheet off
- Saves money by not putting additive film on top
- Not a stocked item. Please call your sales representative for more information

Research Supports the Principle

Diffused light has the advantage of getting more light down into plant foliage canopies.

This advantage applies to plants which grow upright, where the newly emerging leaves end up shadowing older, more productive leaves.

Since 1982 when IR films were first introduced to North America there has been significant research on the effects of light diffusion on plant productivity, concluding that diffusion averages leaf temperatures by evenly distributing light from the top of the canopy to the bottom leaves.

This evenly distributed energy results in more photosynthesis, causing earlier and fuller development of healthier, disease resistant crops.



Overwintering Greenhouse Films





Sun Master Films

White Overwintering Film - 70% Opacity

Tri-layer extrusion and resin technologies result in a film that meets or exceeds 4 mil film

Item	ml	Width	Length	Fold	lbs.
SMOWW324100	3	24'	100'	4B	35
SMOWW424100	4	24'	100'	4B	48
SMOWW324110	3	24'	110'	4B	38
SMOWW424110	4	24'	110'	4B	52
SMOWW324130	3	24'	130'	4B	46
SMOWW324150	3	24'	150'	4B	54
SMOWW324220	3	24'	220'	4B	79
SMOWW328100	3	28'	100'	4B	41
SMOWW328110	3	28'	110'	4B	45
SMOWW428110	4	28'	110'	4C	46
SMOWW328150	3	28'	150'	4B	61
SMOWW332100	3	32'	100'	6	46
SMOWW332150	3	32'	150'	6	69
SMOWW336150	3	36'	150'	6	81

Clear Overwintering Film

Item	ml	Width	Length	Fold	lbs.
SMOWC328100	3	28'	100'	4B	40
SMOWC336100	3	36'	100'	6	52
SMOWC340100	3	40'	100'	6	58
SMOWC342100	3	42'	100'	6	61
SMOWC348100	3	48'	100'	8	69

Berry

Nursery White Overwintering Film- 70% Opacity

New extrusion techniques now allow for a bonded, tri-layer, 3mil thickness (1 mil per layer). Extensive field trials throughout the country over the last few years have provided excellent results. The performance of these films shows a stronger, more puncture-proof and dependable overwinter protection covering with improved tear resistance.

Item	ml	Width	Length	Fold	lbs.
782-3241002	3	24'	100'	CSTF	35
782-3241102	3	24'	110'	CSTF	40
782-3281002	3	28'	100'	CSTF	41
782-3281102	3	28'	110'	CSTF	46
782-3321002	3	32'	100'	STDF	48
782-3401002	3	40'	100'	STDF	58
782-3282102	3	28'	210'	CSTF	88

33% and 55% opacity available as special order.

Nursery Clear Film

- Designed to withstand sub-zero temperatures
- White opaque films help maintain a more uniform temperature
- Co-extruded for puncture and tear resistance as compared to single extruded films
- Higher performing alternative to standard films
- As strong as 4mil co-poly film

Item	ml	Width	Length	Fold	lbs.
782-3241001	3	24'	100'	CSTF	35
782-3281001	3	28'	100'	CSTF	41
782-3321001	3	32'	100'	STDF	47
782-3401001	3	40'	100'	STDF	58
782-4481001	4	48'	100'	STDF	96

Other sizes available as special order. Please check with our office for necessary lead times.

Woven Batten Tape

1 ¾" x 300'

Item: 05-2100



Fold Code: 4B = U-Fold 6 = Double U-Fold 8= Multi U-Fold
CSTF= Center-slit Tubing Folded STDF= Slit Tubing Double Folded

Savings

PURCHASE	SAVE
$750.00	8%
$1,500.00	13%
$2,500.00	18%

Savings applies to Polyethylene Film



Mulch Films

Berry mulch films offer easy application and removal. Designed to help growers reduce their overall labor cost and improve yields, our offering includes an extensive range of film types to meet your requirements. Designed to control weeds and conserve water.

Affects of Color on Growth

The color of mulch film influences soil temperature, the surface temperature of the film, the light reflected to plants, and impacts plant and weed growth.

Black: ideal for weed control, opacity, and UV blocking

White: brighter, reflective, typically 12°F cooler than conventional black films, and 4-8°F cooler than white over black film. Ideal for Hemp Production.





Black Embossed Mulch 1.25 mil

Item	Size	Sq. Ft./Roll
78-1025	3' x 2000'	6,000
78-1030	4' x 2000'	8,000
78-1031	4' X 4000'	16,000

White Embossed Mulch

Item	Size	Sq. Ft./Roll
78-1032	4' X 4000'	16,000

Plastic Sheeting & Film

Construction Grade Plastic Sheeting

Uses include an all purpose cover, vapor barrier, dust barrier, landscaping and concrete curing cover. Available in a number of mil thickness and sizes.

2 mil Construction Grade Translucent Sheeting

Item	Size	Sq. Ft./Roll
06-2908200	8 1/3'' x 200'	1667
06-2912200	12' x 200'	2400
06-2920200	20' x 200'	4000

4 mil Construction Grade Translucent Sheeting

Item	Size	Sq. Ft./Roll
06-49041	4' x 100'	400
06-4908	8' x 100'	800
06-4910	10' x 100'	1000
06-4912	12' x 100'	1200
06-4916	16' x 100'	1600
06-4920	20' x 100'	2000
06-4924	24' x 100'	2400
06-4932	32' x 100'	3200
06-4940	40' x 100'	4000

6 mil Construction Grade Translucent Sheeting

Item	Size	Sq. Ft./Roll
06-6906	6' x 100'	600
06-6908	8' x 100'	800
06-6910	10' x 100'	1000
06-6912	12' x 100'	1200
06-6916	16' x 100'	1600
06-6920	20' x 100'	2000
06-6924	24' x 100'	2400
06-6928	28' x 100'	2800
06-6932	32' x 100'	3200
06-6940	40' x 100'	4000

Important Note: Construction Grade Plastic Sheeting is not manufactured or recommended for use as a greenhouse covering.



Agricultural Black Film

A black "No-Light" sheeting used as a liner under pots or as a blackout covering over those crops that at some point in their growth need complete darkness. Available in 4 and 6 mil. Opaque, resists root penetration and prevents weed growth.

4 mil Construction Grade Black Film

Item	Size	Sq. Ft./Roll
06-4808	8' x 100'	800
06-4810	10' x 100'	1000
06-4812	12' x 100'	1200
06-4816	16' x 100'	1600
06-4820	20' x 100'	2000
06-4824	24' x 100'	2400
06-4828	28' x 100'	2800
06-4832	32' x 100'	3200
06-4840	40' x 100'	4000

6 mil Construction Grade Black Film

Item	Size	Sq. Ft./Roll
06-6808	8' x 100'	800
06-6810	10' x 100'	1000
06-6812	12' x 100'	1200
06-6816	16' x 100'	1600
06-6820	20' x 100'	2000
06-6824	24' x 100'	2400
06-6828	28' x 100'	2800
06-6832	32' x 100'	3200
06-6840	40' x 100'	4000

SOLARIG LINE

- Most Technologically Advanced
- The Strongest
- Longest Lasting
- Up to 6 yr Warranty

Crops grow strong and people work better under ideal environment conditions -such as those provided by the SOLARIG family of woven polyethylene sheeting from PIC PLAST.

PIC PLASTIC (PUYOUNG Group) offers the most technologically advanced, strongest, long-lasting, storm-resistant and efficient plastic sheeting, that is being use all over the world.

PUYOUNG's advantage lies in its special manufacturing processes, the use of sophisticated coatings, its strict quality control (ISO 9001) and its total dedication to customer satisfaction.

Solaroof 172

Item	Description
062-1000	24' X 105'
062-1005	24' X 155'
062-1002	28' X 105'
062-1007	28' X 155'
062-1010	32' X 105'
062-1015	32' X 155'
062-1030	42' X 105'
062-1035	42' X 155'
062-1040	48' X 105'
062-1045	48' X 155'

Solarig 140 IR & AF

Item	Description
062-2000	24' X 105'
062-2005	24' X 155'
062-2002	28' X 105'
062-2007	28' X 155'
062-2010	32' X 105'
062-2015	32' X 155'
062-2030	42' X 105'
062-2035	42' X 155'
062-2040	48' X 105'
062-2045	48' X 155'

Larger lengths available upon request in increments of 5'.

SOLAROOF 172

- The SOLAROOF premier greenhouse covering is for all types of cultivation.
- Made from high quality coated woven polyethylene cloth to the highest standards consistent with PUYOUNG'S ISO 9001 accreditation.
- Contains special new additives to give extra performance.
- SOLAROOF'S extra strength makes it hail and tear resistant and long lasting.
- SOLAROOF unique package of additives assures that it blocks out the harmful UV light.
- The absence of UV light greatly reduces the spread of fungal diseases such as *Botrytis*.
- The lack of UV light deters insects such as aphids from entering the greenhouse.
- Contains Antidrip to help prevent droplets of moisture falling onto the plants and improving light transmission.
- Contains IR additives to keep the foliar temperature high in the greenhouse during the cold night.
- 6 yr warranty for double layer application.

Solarig 140 IR & AF

- 2nd layer/bottom layer in a double layer system.
- Tear resistant and long lasting coated woven polyethylene cloth.
- Contains Antidrip to help prevent droplets of moisture falling onto the plants and improving light transmission.
- Can be sewn to create any size or shape, with ropes, eyelets, etc.
- Lightweight, low cost option.
- Can be sewn to insect net.
- 6 yr warranty for double layer application.



HC Quality Doors



Aluminum / Plexiglass doors

After building greenhouses for over 20 years we have seen the need for good quality greenhouse doors, so in 2003 we expanded our business manufacturing greenhouse doors built to last a lifetime. Our product is made with aluminum or steel frames and is welded together for maximum durability. Our doors are made with polycarbonate and/or plexiglass covering. They are available in single or double sliding and single or double hung.

We only use the highest quality hardware available and will make any size to fit your needs.

Our mission is to ensure that you are completely delighted with you new greenhouse door and 100% satisfied throughout the entire experience.

Custom made greenhouse doors available to fit any size opening. Please call for pricing.

½ Plexiglass & ½ Polycarbonate (Double hung)





Trac-Rite®

Roll-Up Door

Strong, Smooth, Quiet - Rolled Into One Great Door

944 | 944WL | 955 | 955WL | 988 | 988WL





Features

- Withstands higher wind loads
- Strong, durable materials
- Smooth, quiet operation
- Easy installation
- Custom sizes
- Multiple applications
- Low maintenance
- Minimal back room requirements
- Rust resistant
- 30/25 Year paint and 3-year material warranties

Swedge Purlin Pipe Extra Basket Space

Add extra swedge purlins to give you more hanging pot space.

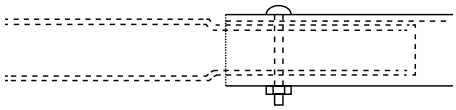




Cross connector
81-510441



Poly clip for tube
used for roll-up sidewall - 1.25"



Swedge Fit Joint
Hardware for attaching Swedge Purlin Pipe to bows (clasp and tek screw option).

Item	Description
02-3150	16' 2.5" x 1.315 OD x 17 GA swedge purlin pipe

Item	Description
02-3101	Poly clip for tube 1.25" used for roll-up sidewall
81-510441	1 ⅜" x 1 ⅜" Cross connector

Greenhouse Brackets



Gable Framing Bracket
- (2) #14 x ¾" Tec screws
- (2) #14 x ½" wood screws

Item: 83-201000



Base Board Bracket
- (1) #10 x 1" Pan Head
- (1) #12 x 1" wood Pan Head

Item: RUBBB

Drop Ship Only



Corner Base Board Bracket
- (1) #12 x 1" wood Pan Head

Item: RUCBB

Drop Ship Only

Wire-Lock Poly Attachment



Gable Rafter Trim



Single Wire-Lock *(09-16501 wire not included.)*



Double Wire-Lock *(09-16501 wire not included.)*



The Wire Lock system is popular for the following applications:

- Single layer of poly 4 mil, 6 mil or larger
- Double layer poly 4 mil, 6 mil or larger
- Roll-up sidewalls
- Seasonal application of shade material over the greenhouse

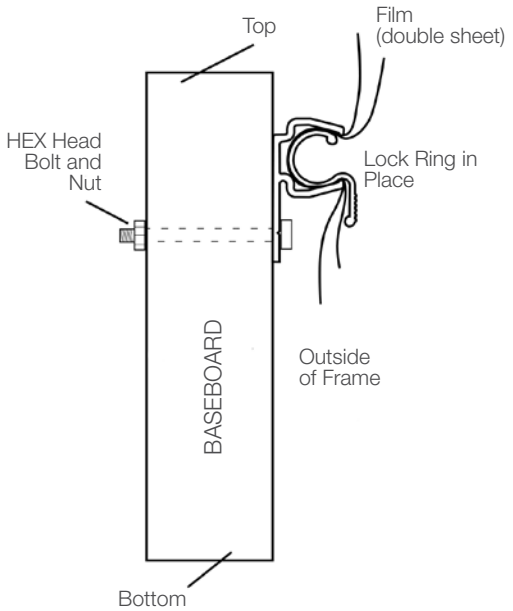
This lock system consists of an aluminum base and a preformed stainless steel wire insert that holds the poly securely in place. It also comes in a shape for gable ends (fits on top of the last bow on each end of the greenhouse). The double can be used in conjunction with a roll-up side wall. The strong point of this lock is that it secures a variety of material thicknesses.

Item	Description
81-500150	Wire-Lock (12' Sections) Alum. Base
09-16251	Wire-Lock (6' Sections) Alum. Base
09-16501	Wire 6' (2 per 12' Base)
81-500160	Gable Rafter Trim 12' Alum.
81-500170	Double Wire-Lock 12' Alum.

Poly Grip

The Poly Grip Lock is a cam-type locking system. This lock was designed for installation with 2 layers of 6 mil poly that is air inflated. It is a simple and secure lock with a track record of dependability. The lock consists of an aluminum base channel and aluminum locking ring. The ring is easily inserted into the base for quick application. This system is not flexible (bendable) and cannot be used on gable ends of quonset houses.

Item	Description	Length
09-1525	Alum. Base Channel	12'
09-1535	Alum. Locking Ring	5' 11 ¾"



Outside Air Inflation System

This unit has all you need to air inflate your greenhouse

Features:

- Forward curved wheels driven by dependable energy efficient motor
- Outside air intake regulator with deflector/bushing
- Blower Bracket for mounting unit on bow
- Pre-assembled hose for outside air



Item: 81-510105

Kenbar Air Inflation Unit Double with Blower Motor

Features:

- 148 CFM



Item	Description
38-023305	Air Inflation Unit Double with Blower Motor
81-520400	Jaderloon 36" Jumper Hose

Shaded Pole Blower 4C440

Open drip-proof motors rated for continuous duty

Features:

- Forward curved wheels driven by dependable energy-efficient motors
- Sleeve bearings suitable for all position mounting
- Adjustable air inlet damper (Only on model #B60)
- Baked enamel finish
- 60 CFM
- 3-Bolt



(Motor Only, used on smaller greenhouse)

Item: 81-510200

Weatherproof Line Voltage Fan Control

- Great for control of 120v fans/ventilators
- On/Off control with minimum speed adjustment for motor types - shaded pole, PSC and universal
- Weather & corrosion proof all polycarbonate thermoplastic construction
- Standard ⅞ opening
- Rating: 5 amps at 120 volts



Before installing you should check to make sure your inflation blower is recommended for use with any type of speed control device.

Item: 24-6020

Shaded Pole & Permanent Split Capacitor (PSC ITDP7) Blower

Replaces 4C446 blower

Features:

- Forward curved wheels driven by dependable energy efficient motors
- Sleeve bearings suitable for all position mounting
- Baked enamel finish
- 146 CFM
- 4-Bolt



(Motor Only)
(Replacement motor for Tee & Single Stack units also)

Item: 09-1220

Adjustable Blower Deflector & Bracket



3-Bolt (round flange)

Item: 81-510400

4-Bolt (square)

Item: 81-510410

Maintaining Proper Inflation Pressure for Greenhouse Film

Improper maintenance of the air pressure between the layers of double poly covered greenhouses can be responsible for premature wearing of the film and shortened life expectancy. Here are some tips for keeping your poly inflated properly:

1. Control the pressure using the rheostat (variable speed control) that the inflation fan would be plugged into. Slowing down the speed of the fan inflates to a lower pressure while speeding up the fan inflates to a higher pressure. Monitor the pressure with an inexpensive manometer.
2. Use outside air to inflate the poly. Outside air is usually drier and does not contain pesticides or other volatile chemicals that can interact with the poly.
3. Change inflation pressure according to the weather. Optimal inflation pressure is 0.2" of water column pressure during hot weather and 0.45" of water column pressure during cold and/or windy weather.
4. Avoid stressing the poly. If overinflated, the poly stretches and becomes thinner, making it weaker. If underinflated, the poly flaps and wears prematurely.
5. Maintain the installation as air tight as possible. Check poly locks occasionally to find and repair air leaks that lead to underinflation. Griffin's sales people will be happy to assist you with any additional questions you may have regarding proper maintenance of your greenhouse film.

All Purpose Poly Repair Tape

Super adhesion! Made with a tough polyethylene backing and aggressive adhesive, this highly conformable all-purpose tape exhibits superior adhesion to film and plastic sheeting.

- All purpose tape for repairing polyethylene and other types of plastic film
- Once applied, it holds fast
- Handles easily, is waterproof
- Won't shrink, crack, dry out or become brittle



Item: 09-14302 **Size/Color:** 2" x 108' Clear
Item: 09-14352 **Size/Color:** 4" x 100' Clear
Item: 09-1425 **Size/Color:** 2" x 108' White

Sun Clear

A concentrated water dispersible liquid formula which, when diluted, increases light transmission, eliminates fogging and improves visibility on glass and polyethylene greenhouses.

- Stops Condensate Drip
- Increases Solar Light
- Reduces Heating Costs



Item: 75-2982 **Size:** 1 qt.
Item: 75-2983 **Size:** 1 gal.



White Felt Adhesive Tape

Protects greenhouse hoops from wearing and tearing greenhouse film.

Item: 09-1404 **Size:** 1.5" X 48' 1/8

Poly Repair Tape

Clear poly repair tape with white paper backing for easy handling and application to your greenhouse film. A complete first aid kit for greenhouses, the rugged patching tape bonds aggressively to polyethylene film.



Item: 09-1406 **Size:** 2" x 48'
Item: 09-1411 **Size:** 4" x 48'
Item: 09-1416 **Size:** 6" x 48'
Item: 09-14202 **Size:** 10" x 48'





Batten Tape

Batten tape is a tough, white vinyl plastic strip ¾" wide x 1/32" thick for securing plastic film to wood frames, greenhouses, cold frames, windows, etc.

Item: 09-1450 **Size:** 500'
Item: 09-1455 **Size:** 1,000'

Batten Tape

Woven Batten Material. 2.75" x 1500'.

Item: 05-21011 **Size:** 1500'



Light Transmission				
Product / Profile	Thkns.	Color or Tint		
		Clear	Bronze	White Opal
Twin-Wall	4mm	82%	35%	30%
	6mm	80%	35%	20%
	8mm	80%	35%	45%
	10mm	79%	35%	30%
Triple-Wall	8mm	76%	35%	45%
	16mm	76%	35%	

Green.tek THERMAGLAS Made in the USA by Palram

ThermaGlas Polycarbonate Sheet

Multi-Wall Structured Polycarbonate Sheets

ThermaGlas multi-wall polycarbonate sheets offer high light transmission, maximum impact resistance, and superior insulation. This combination yields a strong, energy efficient, and lightweight sheet that is optimum for greenhouse applications.

Overview

American made ThermaGlas is available in a variety of tints and special pigments, providing solutions for applications such as production, propagation, holding areas, and retail garden centers. ThermaGlas Plus products feature built-in condensation control so durable and effective it's warranted for 10 years. The result is higher light transmission and reduced moisture-related disease.

Please contact our construction dept. for more info.

Item: 08-3027 **Size:** 48" x 12'
Item: 08-3037 **Size:** 48" x 16'
Item: 08-3047 **Size:** 6' x 12'
Item: 08-3057 **Size:** 6' x 16'

Thickness, Weight & Insulation Values

Product / Profile	Thickness		Weight		R-Factor	U-Value
	inch	mm	lb/psf	g/m²		
Twin-Wall	5/32	4	0.16	800	1.49	0.67
	1/4	6	0.27	1,300	1.62	0.62
	5/16	8	0.31	1,500	1.72	0.58
			0.35	1700	1.72	0.58
	3/8	10	0.35	1,700	1.89	0.53
Triple-Wall	5/16	8	0.35	1,700	1.99	0.50
	5/8	16	0.55	2,700	2.36	0.42

Features

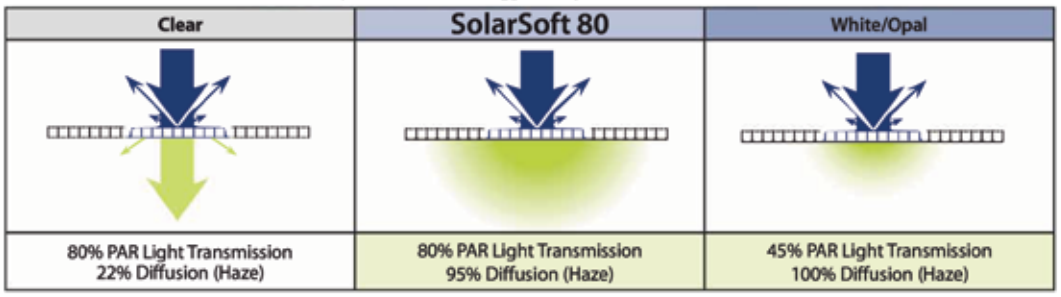
- Superb thermal insulation-saves energy
- Impact resistance-virtually unbreakable
- Weather and UV resistant
- Low flammability (available with CC1 rating)
- 10 year limited warranty
- Available in 47-1/4", 48", 71-1/4" and 72" widths, lengths made to order

SolarSoft 80

Solar Light Diffusing Multi-Wall Structured Polycarbonate Sheets

Spread every valuable bit of PAR light to every leaf in the canopy.

THERMAGLAS® Durability and 99.9% UV blocking



Single & Double "H" Alum Extrusions for 8 mm Polycarbonate

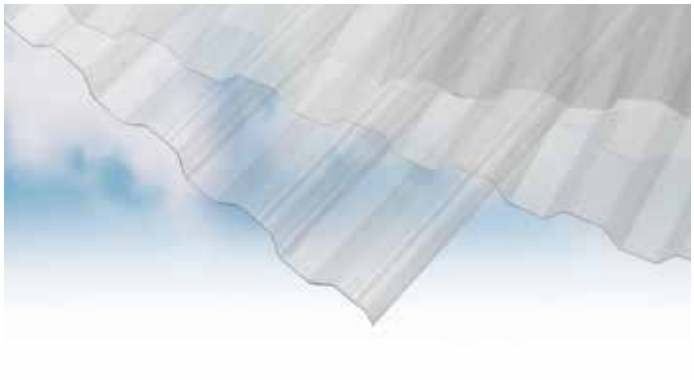
For use with 8 mm polycarbonate structured sheets on end walls and side walls.

12' Single
Item: 09-5235

12' Double
Item: 09-5236







Green.tek DYNAGLAS PLUS®
Corrugated Polycarbonate with Guaranteed Condensate Control

DynaGlas™ Corrugated Polycarbonate Sheet

DYNAGLAS is available in multiple tints for any commercial greenhouse application, including clear, SolarSoft™, white/opal, and solar gray. DYNAGLAS polycarbonate sheets offer all the benefits of polycarbonate glazing, such as high impact resistance, excellent durability, and 99.9% UV blocking. DYNAGLAS PLUS features built-in condensate control that carries a 10-year warranty.

Item	Description	Size
07-3025	DynaGlas Plus Clear	4' x 10'
07-3030	DynaGlas Plus Clear	4' x 12'
07-3035	DynaGlas Plus Clear	4' x 16'
09-3525	No Drip Spacer for DynaGlas Plus	
09-3135	Horizontal Seal	

Now available in 6 ft. wide panels. (Special Order)

Griffin stocks clear DynaGlas Plus in standard lengths. It can also be ordered factory-direct in custom-cut lengths and a variety of tints.

Features

- Up to 92% light transmission (clear)
- Blocks out UV & far IR radiation
- Virtually unbreakable
- UV2 available (UV protection on both sides)
- Flexible and easy to install
- Wide service temperature range -40° F to +212° F (-40° C to +120° C)
- Light-diffusing SolarSoft™ available
- 49.6" and 73.6" widths available
- Retains its clarity and properties for many years
- 10-year warranty against yellowing
- 10-year condensation control warranty
- 5-year hail warranty

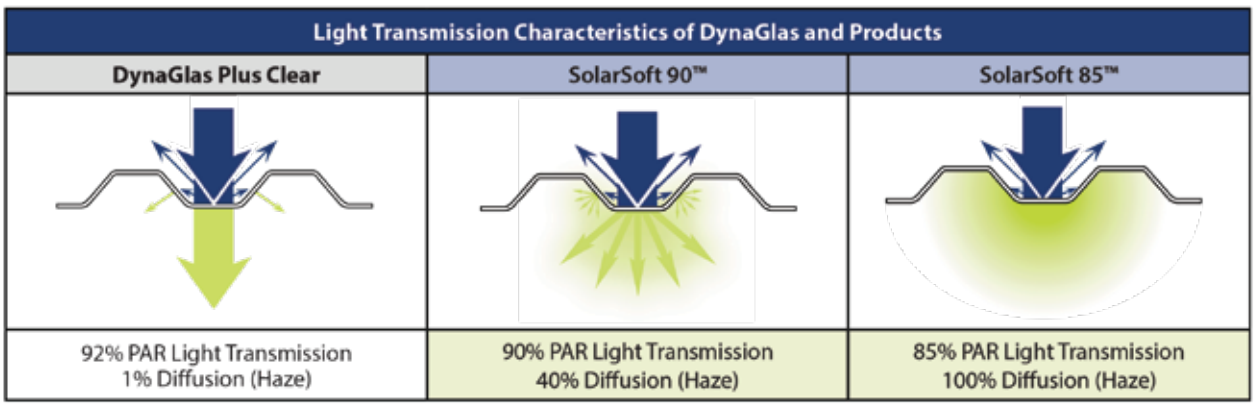
DYNAGLAS® SolarSoft™
High PAR Light Transmission with Improved Diffusion

High PAR Light Transmission with Improved Diffusion

DynaGlas is now available with exclusive SolarSoft™ pigmentation. SolarSoft features all the advanced technology of DynaGlas. Plus, such as 100% UV protection and guaranteed condensate control, but with SolarSoft pigmentation, you reap the benefits of up to 100% light diffusion.

Benefits of SolarSoft

- High PAR light transmission
- Diffused, softer light
- Less shadows cast by structural members and/or curtain systems
- Deeper penetration of light into the plant canopy)



MATRA PLAST

Hi-Core® XL Glazing Construction Panels

Hi-Core® XL is a rigid, multi-wall, translucent sheet, made from a tough polyolefin alloy that is protected from UV and weather by an Environmental Protection System that is exclusive to Matra Plast. Light passing through Hi-Core® XL is highly diffused, (over 95%). Diffused light is bent to many different angles. Compared to non-diffusing materials, Hi-Core® XL allows the light to make a service building brighter or to penetrate deeper into the leaf canopy to impact with more crop. For more information, contact Griffin.





Sheet widths
48" (1220 mm), 72" (1830 mm), 80" (2030 mm) (Available Direct from Factory)

Sheet lengths
8' (2440 mm) to 50' (15,240 mm) (Subject to available transportation restrictions)

8MM Light Transmission (ASTM E 424-71): 73%
Insulation: R factor = 1.64 U factor = 0.61

Item: 08-4030 **Size:** 8mm panel 4' x 8'

Single and Double "H" Extrusions for 8 mm Hi-Core®

For use with 8 mm Hi-Core® structured sheets on end walls and side walls.



12' Single
Item: 09-5235

12' Double
Item: 09-5236



Crystalite Standard Flat Fiberglass

Economical greenhouse panel, ideal in moderate climates for use on side walls and gable ends, when initial cost is a prime factor.

Item: 07-3255
Size: 5 oz. Crystalite 4' x 50'

Drop Ship Only

Ken-Bar products for the grower

Eskay-Lite Vinyl Covering

- 16 mil clear vinyl covering
- Unusually clear, very small light loss
- 4 year life under most conditions
- A good compromise between poly and fiberglass as cover material. Use on ends and sides for see-thru clarity

Item: 05-1025
Size: 16 mil 54" x 50'

Item: 05-1030
Size: 16 mil 54" x 225'

Important Note: Eskay Lite and poly should never be applied so both products come in direct contact with one another. A chemical reaction will occur and product deterioration can result.

ACRYLITE®
An Evonik brand.

ACRYLITE® Acrylic Glazing for Greenhouses



Griffin Construction Department
We are ready, willing and able to assist you with all aspects of greenhouse construction and maintenance. Call 1.800.888.0054 then press 3.

Creating optimal growing conditions with ACRYLITE®

ACRYLITE® multi-skin acrylic's state-of-the-art product features provide significant performance benefits in growing environments of all types. From the far north to the deep south. From tender seedlings and finicky exotics to hardy bedding plants and hydroponic vegetables. No matter where your operation is located or what you are cultivating, controlling the growing environment is critical to your bottom line. ACRYLITE® glazing puts the grower in control and provides solid return on investment over decades of use making it the best value in greenhouse covering available today. Let ACRYLITE® help you create the ideal environment for growth.

Reasons to choose ACRYLITE®

1. High light transmission for growth results
2. Never yellows
3. Protection from hail
4. Energy savings of up to 55%* per year
5. Patented anti-condensate technology, with anti-algae technology
6. Strength and durability
7. Life expectancy of 30+ years
8. Environmental protection
9. The best warranties in the industry



Accessories for Greenhouses



A


B


D


C


F


E

SunSeal Silicone (A)

Ideal for use on Polycarbonate. RTV-1.

Item: 09-3026

Self Drilling Plated Screws #12 (B)

- Designed to drill, tap, and fasten in one operation
- Use in metal application
- Hex head self tapping - No Washer
- 1½" #12 HWH

Please Note: #12 Hex Head Self-Tapping Screws are available in bulk on request. Not stocked. Ask for sizing and pricing.

Item: 09-2255 **Qty:** 100/box

Self Drilling Plated Screws #10 (C)

- Designed to drill, tap, and fasten in one operation
- Use in Wood application
- #10 Woodtite Screw - No Washer
- Self drilling piercing point hex head

Item: 09-2251 **Size/Qty:** 1½" - 100/box

Aluminum & Vent Tape (D)

- Vent Tape is used at bottom of PCSS*
- Aluminum Tape is used at top of PCSS*

#394 Vent Tape
Item: 09-6025
Size: 1½" X 36 yds

Aluminum Foil Duct Tape
Item: 09-6030
Size: 2" X 50 yds

Foam Spacer (E)

- 1"x 1" x 3⁄8"
- One side sticky
- Used on purlins for spacer with PCSS*

Item: 09-6035 **Qty:** 100/bag

Washers (F)

Perma-Seal Sealing Washer

Item	Description	Qty
09-5020	#10 x 1⅛" Neo/Bonded Washer	100/bag
09-6020	#10 x ⅝" Neo/Bonded Washer	100/bag
09-6023	#12 x ⅝" Neo/Bonded Washer	100/bag
09-5026	#12 x 1⅛" Neo/Bonded Washer	100/bag