

COVERINGS



BRANDS CARRIED



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poly-ag.com

Green-tek

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Poly-Ag Corp. was established in 2003. Located in San Diego, CA - specializing in advanced polyethylene films and a wide variety of nets for the agricultural sector. Poly-Ag Corp. is affiliated to A.A. Politiv Ltd. (1999) Enterprises; one of the world's leading manufacturers of agricultural polyethylene films since 1985. Poly-Ag Corp. has earned a reputation for reliable and dedicated service



Poly-Ag Clear

Using their advanced technology, Poly-Ag has created a clear, tougher, longer lasting greenhouse film.

Manufactured with state-of-the-art extrusion equipment and new high tech polymers, Poly-Ag Clear offers growers:

- Superior Strengths and Toughness
- Higher Light Transmission
- Guaranteed Longer Life (4 Years)

Poly-Ag Clear offers the best value in a 6-mil, 4-year greenhouse film with the following improved properties over our older generations of greenhouse covers.

- Folds up to 210% stronger
- Tear Strength up to 164% higher
- Puncture Force up to 12% higher
- Advanced UV up to 33% longer life



| Gauge | UV Stabilized? | Warranty? | Thermal? | Bee Compatibility? | White Opacity? |
|-------|----------------|-----------|----------|--------------------|----------------|
| 6 mil | Yes | Yes | No | Yes | Optional |
| | 4 years | 4 years | | | |



Poly-Ag Thermal

Superior Protection - Constant Heat Retention - Directional Condensation Control

Every grower strives to produce the best crop they can while keeping production costs to a minimum. The covering overhead is a major component, and when extras are added - anti-condensate, thermal capabilities or bee compatibility - grower costs start to rise.

Poly-Ag is sensitive to the needs of our customers and has designed a new "custom designed" greenhouse poly. Poly-Ag Thermal - a new generation of horticultural films - combines all of these extras into one package. Superior drip control, energy savings and bee compatibility are all packaged together to provide growers with one film at one cost. Why pay extra when Poly-Ag Thermal is all you need!

| Gauge | UV Stabilized? | Warranty? | Thermal? | Bee Compatibility? | Anti-Condensate |
|-------|----------------|-----------|----------|--------------------|-----------------|
| 6 mil | Yes | Yes | Yes | Yes | Yes |
| | 4 years | 4 years | | | |

Poly-Ag Cool

Introducing Solar-Ice from AT Films, a new-generation four-year film that will lower greenhouse temperatures in the daytime heat. SolarIce is the first greenhouse film that improves growing conditions by using controlled diffusion to influence the light reaching the plant.

Solar-Ice is a highly diffusing film designed to make more light available to plants by increasing the amount of diffused light to close to the maximum, while reducing short wave infra-red radiation and enhancing useful light in the PAR range. This leads to healthy, bushy plants while reducing greenhouse temperatures. What's more, there's less risk of plants scorching while achieving an optimum rate of photosynthesis. Poly-Ag Cool creates higher yields and stronger-than-normal root systems.



ThermaGlas Polycarbonate Twinwall & Triplewall Sheeting

ACW Supply Stocks 4' and 6' wide 8mm Twinwall Polycarbonate in up to 32' lengths and 4.16' Wide Clear and Solar Soft Polycarbonate in up to 24' long sheets. We cut to the nearest foot (and charge to the nearest foot). For custom orders outside of these stock materials crating and shipping charges will be added. If we have a full truck of material coming in to warehouse you can usually add your custom order to avoid these extra charges, but you will need to wait for your custom order until we do need a stock truck. Call us for more information.



| Dimensions | | | | | | | | | | |
|-------------|-------------------|------|-------------|--------|---|--|------------------|------|---|-------------------------------------|
| Product | Thickness | | Rib Spacing | | Standard Widths | | Weight | | Lengths | Colors |
| | mm | in. | mm | in. | mm | in | g/m ² | psf | ft. | |
| Twin-Wall | 4 | 5/32 | 6 | ~1/4 | 1200 1220 ⁽¹⁾ 1810 1830 ⁽¹⁾ 2100 ⁽²⁾ | 47.25 48 ⁽¹⁾ 71.25 72 ⁽¹⁾ 82.68 ⁽²⁾ | 777 | 0.16 | 24' in stock. Available up to 39' ⁽³⁾ | Clear Opal Gray Solar Soft |
| | 6 | 1/4 | 6 | ~1/4 | | | 1300 | 0.27 | | |
| | 8 | 5/16 | 10 | ~3/8 | | | 1500 | 0.35 | | |
| | 10 | 3/8 | 10 | ~3/8 | | | 1700 | 0.35 | | |
| Triple-Wall | 8 ⁽²⁾ | 5/16 | 20 | ~13/16 | 1200 | 47.25 | 1700 | 0.35 | 24' in stock. Available up to 39' ⁽³⁾ | Clear Opal Gray Solar Soft |
| | 10 ⁽²⁾ | 3/8 | 20 | ~13/16 | | | 1990 | 0.41 | | |
| | 16 | 5/8 | 20 | ~13/16 | | | 2670 | 0.55 | | |

(1) Full 48" and 72" widths with guaranteed condensation control may be available upon request.

(2) 2100mm (82.68") wide panels not available in all thicknesses.

(3) Please note that parcels longer than 20' may require lead-time an additional freight surcharges.

| Thermal | | Value | | Test Method |
|---|-----------------|---------------------------------------|----------|-------------|
| No. of Layers | Panel Thickness | R-Factor | U-Factor | |
| Twin-Wall | 4mm | 1.49 | 0.67 | ASTM C-177 |
| | 6mm | 1.62 | 0.62 | |
| | 8mm | 1.72 | 0.58 | |
| | 10mm | 1.89 | 0.53 | |
| Triple-Wall | 8mm | 1.99 | 0.50 | ASTM D-648 |
| | 10mm | 2.08 | 0.47 | |
| | 16mm | 2.36 | 0.42 | |
| Optimal Service Temperature Range | | -40° F to +248° F (-40° C to +120° C) | | ASTM D-648 |
| Maximum Service Temperature | | 270° F (132° C) | | |
| Heat Deflection Temperature | | -103° F (-75° C) | | |
| Heat Deflection Temperature | | 275° F | | ASTM D-1525 |
| VICAT Softening Temperature | | 300° F | | |
| Coefficient of Linear Thermal Expansion | | 3.6 x 10 ⁵ in./ in. °F | | ASTM D-696 |
| Thermal Conductivity (BTU-in/hr-ft ² - °F) | | 1.45 | | ASTM C-177 |



| Mechanical | | |
|--|-----------------------|------------|
| Tensile Strength At Yield (0.4 in/min) | 9,400 psi | ASTM D-638 |
| Tensile Strength At Break (0.4 in/min) | 8,800 psi | |
| Elongation At Yield (0.4 in/min) | 6% | |
| Elongation At Break (0.4 in/min) | > 90% | |
| Tensile Modulus of Elasticity (0.4 in/min) | 350,000 psi | |
| Flexural Modulus (0.052 in/min) | 380,000 psi | ASTM D-790 |
| Flexural Strength At Yield | 14,500 psi | ASTM D-790 |
| Rockwell Hardness | 118 R Scale | ASTM D-785 |
| Density | 75 lb/ft ³ | ASTM D-792 |
| Specific Gravity | 1.2 g/cc | ASTM D-792 |

| Optical | | | | | | | | |
|------------------------|-----------------------|-----------------|-----------|-------------|------------|-------------|-----------|-------------|
| Property | Test Method | Panel Thickness | Clear | | White Opal | | Gray | |
| | | | Twin Wall | Triple Wall | Twin Wall | Triple Wall | Twin Wall | Triple Wall |
| PAR Light Transmission | ASTM D-1003 | 4mm | 82% | | 30% | | 35% | |
| | | 6mm | 80% | | 20% | | 35% | |
| | | 8mm | 80% | 76% | 45% | 45% | 35% | 35% |
| | | 10mm | 79% | 76% | 30% | 45% | 35% | 35% |
| | | 16mm | | 76% | | 35% | | 35% |
| Rockwell Hardness | 118 R Scale | All Thicknesses | 1.59 | | | | | |
| Density | 75 lb/ft ³ | All Thicknesses | < 1 | | | | | |

| Fire / Ignition / Smoke | Value | Test Method |
|-------------------------|---------------|---------------|
| Flammability rating | CC1* | ASTM D-635-74 |
| Self Ignition | 1000° F | ASTM D1929 |
| Flash Ignition | 930° F | ASTM D1929 |
| Smoke Density | 8.6% | ASTM D2843 |
| Smoke Developed | 350 (Class A) | ASTM E-84 |
| Flame Spread | 15 (Class A) | ASTM E-84 |
| Vertical Burning | UL94-5VA | UL94-1998 |

*Select Products Apply

| | | Recommended Span Under Given Load (Wind/Snow Load) | | | | | | | | | |
|-------------|-----------------|--|-----|--------------------------------|-----|---------------------------------|-----|---------------------------------|-----|----------------------------------|-----|
| Profile | Panel Thickness | 10 psf 70 kg/m ² | | 15 psf 70 kg/m ² | | 20 psf 100 kg/m ² | | 25 psf 125 kg/m ² | | 230 psf 150 kg/m ² | |
| | | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. |
| Twin-Wall | 6mm | 800 | 32 | 700 | 27 | 650 | 20 | 620 | 25 | 600 | 24 |
| | 8mm | 1000 | 39 | 900 | 35 | 800 | 32 | 750 | 30 | 735 | 29 |
| | 10mm | 1250 | 49 | 1080 | 42 | 940 | 37 | 900 | 35 | 850 | 33 |
| Triple-Wall | 8mm | 975 | 38 | 875 | 34 | 780 | 31 | 735 | 29 | 720 | 28 |
| | 10mm | 1220 | 48 | 1050 | 41 | 920 | 36 | 870 | 34 | 820 | 32 |
| | 16mm | 1600 | 63 | 1400 | 55 | 1250 | 49 | 1150 | 45 | 1050 | 41 |

1.) The data is based on load tests on typical multi-wall sheets and additional extrapolations. 2.) The data is based on a maximum deflection of 1/20 of the span (5%) using continuous, multi-span supports. 3.) The data refers to mid-spans. The edge spans (lower and upper ends) should be smaller by about 20%. 4.) The sheets can withstand even higher loads or wider span without failure, but the deflection may then grow to almost 1/10 the span (10%)

DynaGlas

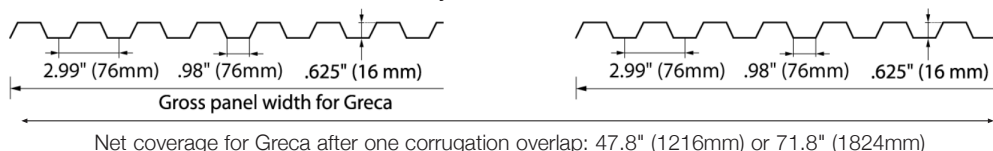
DynaGlas was the first corrugated polycarbonate ever introduced to the commercial greenhouse market nearly three decades ago. Since then, DynaGlas has become an industry standard against which all other corrugated polycarbonate products for the horticulture market are compared. DynaGlas includes several products with a variety of features engineered specifically for commercial greenhouse use.



| Dimensions | Value (English Metric) | |
|--|---|---------------------|
| Panel Widths (gross) | 49.6" or 73.6" (1260mm or 1870mm) | |
| Panel Width (net after one corrugation overlap) | 47.8" (±4ft) or 71.8" (±6ft) (1216mm or 1824mm) | |
| Panel Lengths (custom cut to specification) | 3' to 38' (914mm to 11580mm) | |
| Corrugation/Wave Depth | Greca 0.625" (16mm) Omega .591" (15mm) | |
| Corrugation/Wave Pitch | 2.99" (76mm) | |
| Weight | Greca .24 lbs./sf (1220 g/m ²) Omega Greca .23 lbs./sf (1104 g/m ²) | |
| Thickness | 0.03" (0.8mm) | |
| Number of Corrugations/Waves | 17 (49.6" panel) or 25 (73.6" panel) | |
| Thermal | Value (English Metric) | Test Method |
| Optimal Service Temperature Range | -40° F to +212° F (-40° C to + 100°C) | |
| Maximum Service Temperature Range | 270° F (132° C) | |
| Minimum Service Temperature Range | -103° F (-75° C) | |
| Heat Deflection Temperature Load, 275° F (psi) | 275 | ASTM D-648 |
| R / U-Factor and K-Value | R = .83 / U 1.20 = (K = 5.8 W/m ² K) | |
| Coefficient of Linear Thermal Expansion | 3.6 x 10 ⁻⁵ in./in./°F (6.5 x 10 ⁻⁵ cm/cm/°C) | ASTM D-696 |
| Thermal Conductivity BTU/lb. (F°) | 1.4 | ASTM C-177 |
| Mechanical | | |
| Tensile Strength at Yield, 2 in./min. (psi) | 9,000 | ASTM D-638 |
| Tensile Strength at Break, 2 in./min. (psi) | 9,500 | ASTM D-638 |
| Elongation at Yield, 2 in./min. (%) | > 6% | ASTM D-638 |
| Elongation at Break, 2 in./min. (%) | > 80% | ASTM D-638 |
| Tensile Modulus, 0.04 in./min. (psi) | 340,000 | ASTM D-638 |
| Flexural Modulus, 0.052 in./min. (psi) | 310,000 | ASTM D-790 |
| Flexural Strength at Yield 0.052 in./min. (psi) | 13,500 | ASTM D-790 |
| Shear Strength (psi) | 6,180 | Factory Test |
| Izod Impact Strength, Notched (73° F), ft./lb./in. | 18 | ASTM D-256 |
| Rockwell Hardness, R Scale | 118 | ASTM D-785 |
| Impact Resistance (falling dart) | 444 in. lbs. (50 joules) | ISO 6603/1 |
| OSHA point-29 | Passed 200 lb. | CFR 1910.23 (e) (8) |
| Uplift | Passed UL 90 | UL 580 |
| Longitudinal Bending Radius | 16' (4.9 m) recommended; 13' (4m) min. | |

Panel Dimensions

DynaGlas Plus Clear and SolarSoft is available in either 49.6" (47.8" net width) or 73.6" (71.8" net width). DynaGlas Plus White, Gray and all SE products are available in 49.6" width only.



Sun Clear Coating

Sun Clear Increases Solar Light and Reduces Heating Costs

The original "No-Drip" coating used by greenhouse growers here and abroad, which transmits more light to growing plants, saves energy and virtually eliminates all dripping and fogging in plastic houses. Sun Clear is used to stop dripping in greenhouses. Improves plant quality due to less Botrytis and other plant diseases. As much as 50% more sunlight is transmitted through the Sun Clear treated plastic. Will adhere to any type of plastic or metal. It is non-toxic, insoluble, water-dispersible and easily sprayed. Tested in over 20 countries from the arctic to the tropics.



| Item Number | Size | (Conc. Vol.) | Av. Dil. Vol. (gallon) | Coverage (Avg. Sq. Ft.) |
|-------------|--------|----------------|------------------------|-------------------------|
| MISSC1P | Pint | 1 pt (0.4731) | 25 | 5,000 |
| MISSC1Q | Quart | 1 qt (0.9461) | 50 | 10,000 |
| MISSC1G | Gallon | 1 gal (3.7851) | 200 | 40,000 |

Visor Coating - Shading Compound

Visor diffuses light and reduces heat on greenhouse surfaces of glass, and hard or soft plastic glazing materials. Visor is formulated to professional growers' expectations under the toughest growing conditions.

Directions for Use:

For typical shading requirements combine 1 part Visor with 8 parts water to create your shading mixture. Visor is conveniently packaged in a concentrated form and is easily diluted with water depending on shading needs.

Coverage:

Visor should be applied to achieve the most uniform and effective coverage. Brush or roller applications may also be used. Coverage will vary according to application, dilution ratio and the application technique. Higher dilution ratios (less concentrated) will result in a lighter shade while lower dilution ratios will result in a darker shade. (1:8 is recommended for most applications.)

Code: **BUVIS2.5G**

| Dilution Ratio | Total Light Reduction |
|----------------|-----------------------|
| 1 to 8 | 37.29% |
| 1 to 5 | 45.60% |
| 1 to 3 | 53.77% |
| 1 to 1 | 78.60% |

White Vinyl Tack Strip

Tack Strip provides a quick fastening method for stapling plastic film to wood framing. It saves hours of application and removal time while acting as a batten strip to hold plastic in place during cold and in the wind. Just staple every 4" holding tape tight. The tape is a white vinyl strip 3/4" wide by 1/32" thick. It is formulated to resist U.V. radiation and extreme cold. Available in 500 foot rolls in cases of 4.

Rolls: 500 ft. x 3/4"

Item Number: **GATS**

Poly Patching Tape

A highly U.V. stabilized and waterproof 6 mil polyethylene tape used for repairing vinyl and plastic films.

| Item Number | Size |
|-------------|--------|
| JCPP2I | Pint |
| JCPP4I | Quart |
| JCPP10I | Gallon |

Pak Guard Insulator Tape

A non-woven polyester, U.V. fabric tape that protects and extends the life of your greenhouse covering. It is applied to points of contact between the frame and the covering to reduce chafing and heat buildup which can cause excessive wear and early deterioration of covering materials. Pak Guard comes in a convenient 1 1/2" x 40' roll and is easy to use. Simply peel off the paper liner and press it directly onto all frame surfaces that support or contact the covering. Pak Guard adheres well to metal, wood, plastic and painted surfaces, but it's not recommended for oil-treated wood surfaces. (Oiled wood prevents proper adhesion and can damage covering materials.) Proven effective and economical after several years of use by professional growers. One application can last many years.

How many rolls will you need? Multiply the number of arches or truss supports by width of covering. Divide total linear feet by 40 (40' roll).

Item Number: **PUIT**

Polypropylene Batten Tape

Used to batten down poly-film on greenhouses. Keeps film from fluttering. Protects film against tears and punctures and reduces noise factor. Does not cast shadows.

2.75" x 300'

Item Number: **GABT**

Poly Lock Wire and Base



Poly Lock Wire is an efficient and easy to install system for fastening polyfilm onto a greenhouse. Poly Lock Wire Base comes in 12 foot sections, and the wire comes in 6 foot 6 inch sections. You need 2 wires per base section.

Item Numbers: Wire - **MDMWW**, Base - **MDMPL**

Air Transfer Kit

A simple mechanism used to transfer air from one Poly Inflated Roof to another.

Item Number: **GANOATK**

MynFan

| Item Number | CFM | Volts | Amps | Hz | RPM | HP |
|---------------|-----|-------|------|-------|------|-------|
| VBM60 | 60 | 115 | .42 | 60/50 | 3030 | 1/125 |
| VBM148 | 148 | 115 | 1.37 | 60/50 | 3160 | 1/25 |

Round Bracket

Round Brackets are used for installation of 60 CFM inflation fans.

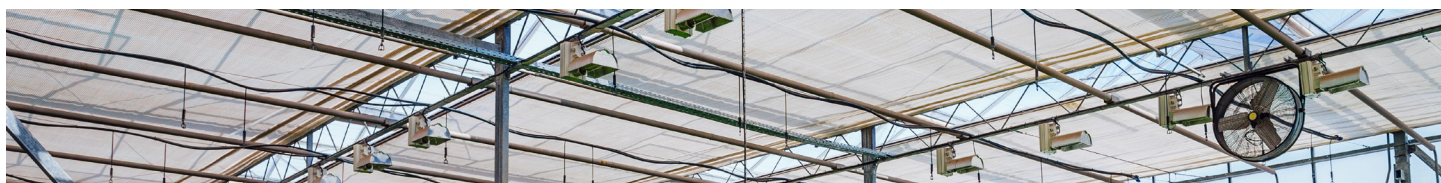
Item Number: **JC4PN0030**



Square Bracket

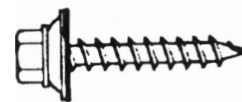
Square Brackets are used for installation of 60 CFM inflation fans.

Item Number: **JC4PN0035**



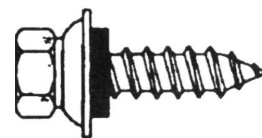
Wood Screws

| Item Number | Size | Length | Pieces Per Carton | Lbs. Per M Pieces |
|-------------|------|--------|-------------------|-------------------|
| GA#10TS1I | #10 | 1" | 5000 | 7.2 |
| GA#10TS1.5I | #10 | 1 1/2" | 5000 | 10.8 |
| GA#10TS2I | #10 | 2" | 4000 | 13.1 |



Metal Screws - Self Tapping

| Item Number | Size | Length | Pieces Per Carton | Lbs. Per M Pieces |
|-------------|------|--------|-------------------|-------------------|
| GA#14TS.75I | #14 | 3/4" | 2500 | 14.9 |
| GA#114TS1I | #14 | 1" | 2500 | 16.5 |
| GA#14TS1.5I | #14 | 1 1/2" | 2500 | 21.2 |
| GA#14TS2I | #14 | 2" | 2500 | 26.3 |



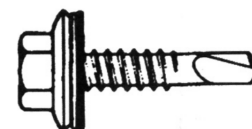
Metal Screws - Self Drilling

| Item Number | Size | Length | Pieces Per Carton | Lbs. Per M Pieces |
|-------------|------|--------|-------------------|-------------------|
| GA#14DS.75I | #14 | 3/4" | 2500 | 16.7 |
| GA#14DS1I | #14 | 1" | 2500 | 18.5 |
| GA#14DS1.5I | #14 | 1 1/2" | 2500 | 23.1 |



Stich Screw for Lapping Corrugated Polycarbonate

| Item Number | Size | Length | Pieces Per Carton |
|-------------|------|--------|-------------------|
| GA#10TS1I | #12 | 3/4" | 2500 |



Pop Rivet with Washer for Lapping Corrugated Polycarbonate - Item Number: GAPR

Bar Cap Screw

Item Number: [GALBS](#)

Use to connect Bar Base to Bar Cap

Corrugated Horizontal Strip, Lexan Available in 2 Weights

Item Number: [GALC3F \(Light\)](#)

Item Number: [GALCH3F \(Heavy\)](#)

36" Long

Fiberglass Flat Vertical Strip

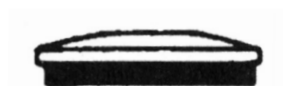
Item Number: [GAVC3F](#)

1" x 36"



1" Bonded Washer

Item Number: [GABW1I](#)



Lap Nut

Item Number: [GALN](#)



Bar Base

Item Number: [GALBB](#)

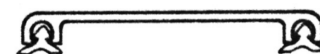
Use to connect panels on roof



Bar Cap

Item Number: [GALBC](#)

Used to secure panels to roof



Bar End Cap

Item Number: [GALBEC](#)

Used to secure roof to roof gable ends



Bar Cap Gasketing

Item Number: [GALBECG](#)

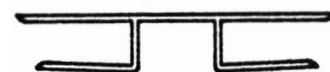
Used to seal bar cap to bar base

"H" Channel (Splice)

Item Number: [GALHC12F](#) - 12'

Item Number: [MDMH12](#) - 12'

Used to connect panel together



"U" Channel (Single Gap)

Item Number: [GALUC](#) - 6'

Item Number: [MDMU12](#) - 12'

Used to seal top and sides of panel
8mm x 6'

