



Ginegar Plastic Products Ltd.
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גניגר מפעלי פלסטיקה בע"מ
 קיבוץ גניגור, 38580
 טל: 04-6544201/9
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 http://www.ginegar.co.il



General Guidelines for Handling and Treatment of Films and Greenhouses

In order to make the most effective, optimal use of Ginegar films you have purchased, we recommend that you strictly follow all the following instructions:

General Guidelines

- Store the film rolls in a shaded and protected area, laid horizontally on a smooth surface. Film is packed in double layer air bubble film.



- Read the installation guide before fixing the plastic carefully.

**Correct Installation of the
 5 Layered Cover Film **Double W** fold**

Please note:
 While installing the 5 Layered film the exposed side of the film (roll) must make contact with the roof (facing the soil). The internal side of the film is facing upwards (sky). For best results and to insure proper use of the 5 Layered film please follow installation instructions carefully ■

The manufacturer's guarantee will not cover improper installation.

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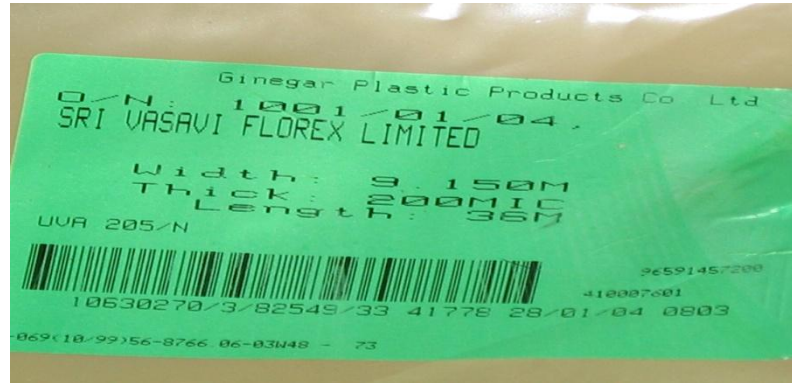


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- After installation of film, save a 0.5 square meter sample of the film, including its identification label.



Identification Label

- As far as possible, try to prevent any contact between the films and plastic materials that are not made of polyethylene, which accelerate wear and tear.
- Do not leave films (rolled or unfolded) exposed to the sun so that they will not stick.
- Film storage period should be no longer than 6 months.
- Do not drag the rolls. Following are the typical dragging type damage. We don't guarantee this kind of damages:



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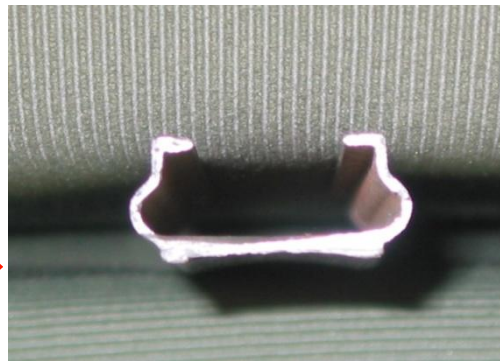


- **Pollinator operation:**

Films that contain (like UVA 205 N or any other UV blocking file) UV radiation filtering may impede the activity of pollinators. This is a temporary condition that passes after a short time. In order to improve pollinator operation, ventilate the greenhouse. Good operating conditions for pollinators are 15C° to 28C°, and about 70% relative humidity. At higher temperatures, the pollinators will cool the beehive and will not gather pollen. Positioning the beehive in a location that is open and accessible to bees, shading the beehive and, positioning it next to an unfiltered light source – and if necessary increasing the number of beehive units per area - will improve pollinator performance. Note that there are other factors that disrupt pollinator operation - weak blossoming or lack of pollen, high temperatures and / or low relative humidity and pesticides that repel pollinators.

Greenhouse Preparation

- Disinfect the frames and wooden parts with materials that are not petroleum based.
- Reinforce the greenhouse structure (especially supports and stretching devices) and replace faulty parts.
- Do not use PVC profiles. We recommend they be replaced with wood or metal profiles.
- **Do not use profile with sharp edges. Edge must be smooth to ensure the plastic is not cut by profile.**



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- In case plastic is fixed by spring and C profile change the rusted springs immediately.



- Make sure that metal and wood parts that come in contact with the films are smooth. Cover **edges and protruding parts with polyethylene tape or suitable padding.**



- Paint, using acrylic based white paint, all the metal and wood parts that come in contact with the films.
- Rinse and clean the greenhouse before installation of the films in order to remove any pesticide residue.
- Structures heavily rusted like shown below speedup the process of degradation at the contact points. Our warranty becomes null and void for this kind of structure.

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- In case of use of wood for fixing the plastic wrap the wood and then nail. Only galvanised nail or screw should be used for this purpose.



- **Use of cords when the film is stretched across the structure (French method):**

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- Metal cords – use metal cords coated with PE. Cords that are galvanized (especially new ones) are not suitable, because they release zinc oxide that damages the films. Rusty cords must be replaced immediately.
- Plastic cord – do not use black cords, only light colored cords.
- The cords must be tightly stretched.

Customizing Films for Greenhouses and Tunnels

We recommend use of the same type of film to cover all the greenhouses (roofs and curtains).

The width of the film should match to the span of the greenhouse or tunnel according to the following calculation:

- For all greenhouses with a span of up to 7.5 meters, the width of the film must be the greenhouse span plus 1 meter.
- For greenhouses with a span of 8 meters and over, the width of the film must be the span plus 1.5 meter.
- For a tunnel shaped greenhouse, 1.5 to 2 meters should be added to the length of the arch to allow for insertion into the ground tunnel.
- The length of the film should be about 5 meters longer than the length of the greenhouse / tunnel.
- For curtains, calculation of the width of the curtain should be based on the height with the addition of 50 to 70 centimeters for reinforcements, and the length should be based on the length of the greenhouse.
- Due to the wide range of models, we recommend you consult the structure's manufacturer to receive precise dimensions for the films.

Polyethylene film widths are available at up to 16 meters and for convenience of use are folded so that the rolls are easy to carry and install. Various folding methods are specified on the rolls.

Installing the Films

- Open the rolls just before installation.
- The optimal installation season is autumn (October – November), when temperatures are between 15C° to 25C°. This ensures maximal utilization of the warranty for the films and commencement of winter with clean films.
- When installing multi-layer films, note the direction for film placement, as it is indicated on the rolls.

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- The recommended method is to lay the roll on a roller and stretch the film while advancing along the greenhouse. All other installation methods are not recommended! Correct installation is of great importance for preserving the integrity of the films.
- Install the films when there is no wind.
- Stretch the film evenly all across the greenhouse.



Wrong Method



Right Method

- Install the roof film and curtain films at the same time.
- Do not place assembly tools, such as ladders, on the film.
- Take care not to damage (tear) the film when inserting profiles, nails or fasteners used to attach the film to the structure.



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- Place the nut bolts in right direction so that it does not damage the plastic.



- After installation, paint the films with acrylic based white paint – covering all the points of contact between the films and metal and wood parts (arches, drain pipes, frames and crowns). Painting should be performed in stripes that will fully cover all the parts that come in contact with the film (See instructions for painting the greenhouse and films).

Ongoing Maintenance

Repair holes and tears in the film as soon as possible, using adhesive tape suitable for polyethylene film. Large tears can be repaired using a patch made of PE film and nails. Before repairing clean the damaged area nicely with water both from inside and outside let it dry before applying the tape. If possible apply the tape both from inside and outside the damaged film.



Film Repair Tape Recommended by Ginegar

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- During transition between seasons and after storms, re-stretch the films as necessary.
- Stretch the shading net from edge to edge. The shading net causes damage to the film if it comes in contact with it. In addition, if the net is placed on the film, the film clogs up with dust, and consequently the transmission of light is very low.
- In order to improve the transmission of light, periodical rinsing is recommended. You can use a sponge or cloth. Do not scrub the films with brush.



- Even if there are no crops in the greenhouse, it should always be ventilated. Overheating of the greenhouse shortens the life span of the films.
- Painted stripes on the contact points should be repainted as necessary.

The manufacturer's warranty for the product is valid only if all the above instructions were executed according to Israeli Standard 821. The owner of plastic films is obligated to dispose of them in accordance with the national health regulations.

Effect of Chemicals on Greenhouse Cover Films

Pesticides, such as sulfur, substances that contain halogen and additional materials, damage the stabilizers and shorten the life span of films.

Use of evaporators, dispersers and canons for pollinations increase damage to the film. The most sensitive points are the points of contact between the film and metal and wood parts (gutters, arches, crowns). Therefore, limit use of pesticides to a minimum – especially the use of sulfur and halogens. Always apply the pesticide to the plants, and not to the films.

Heating of the film, accumulation of humidity and pesticides in these locations cause accelerated wear and tear.

What can be done to reduce the damage?

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- Paint white stripes on the points of contact between the film and metal and wood parts (see the appendix with painting instructions).
- Ventilate the greenhouse after every application of pesticides.
- Cover the soil with impermeable ground cover films when disinfecting the soil using chemicals.
- Use films that block UV radiation: AD IR Anti-virus / AD IR 504 – which are more durable than regular IR films.

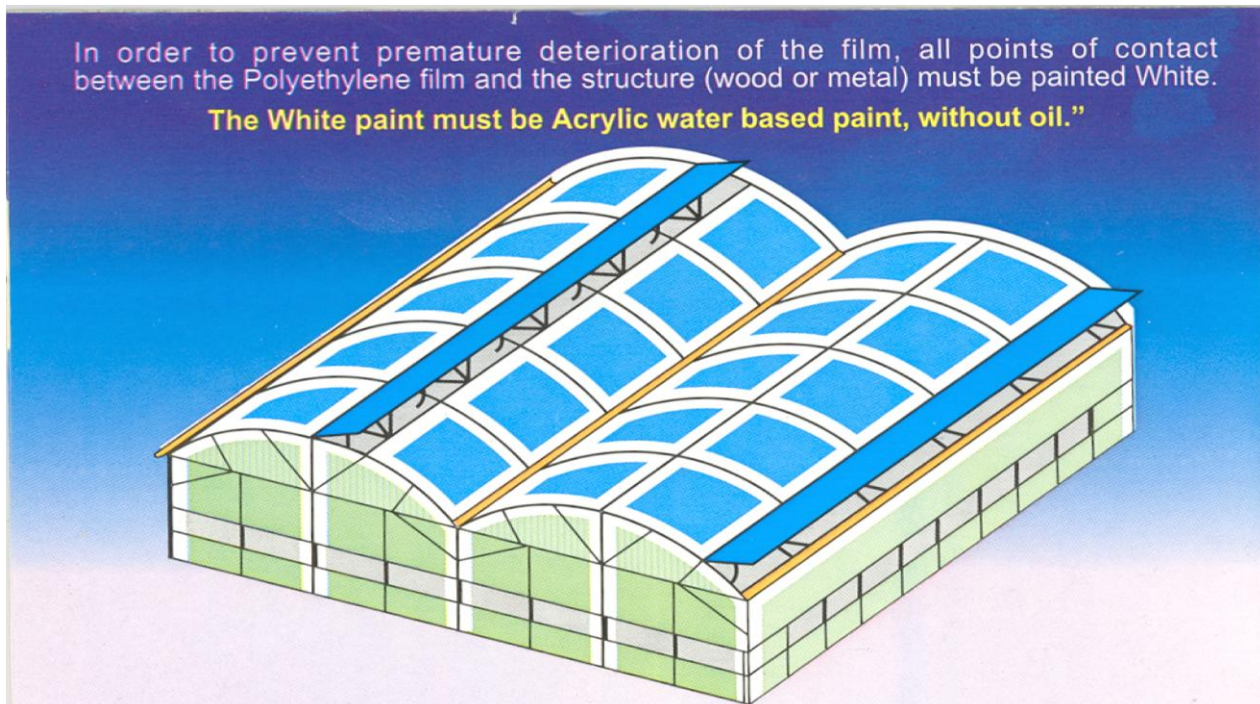
Instructions of Painting and Blanching the Covers and Greenhouse

Heating of the films at the points of contact in the greenhouse – arches, crowns, gutters and all other points of contact with metal and wood - causes accelerated wear and tear of the films. Therefore, it is very important to paint the parts that come in contact with the film before installation, and to paint stripes on the films after installation. White paint prevents overheating of the films, and prolongs their life span.

Painting the greenhouse before film installation

Smooth down, remove or apply polyethylene tape to protruding parts that come in contact with the films. Paint with white paint all the metal and wood parts that come in contact with the films.

Painting Stripes on the Films:



- Painting should be executed several days after installation, to ensure optimal adhesion.

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- Use an acrylic based white paint, such as “White Stripe”. Paint all contact points with a suitable water based white paint from inside before fixing the plastic. (ASIAN PAINT TRACTOR BRAND ACRYLIC WASHABLE DISTAMPER, BRILLIANT WHITE to be applied).



- Dilute the paint with a bit of water in order to attain a suitable coat of paint, but do not over dilute, so that the paint will not drip and run.
- Paint stripes using a roller or sponge, and cover all the points of contacts between the film and arches, crowns, gutters and all other points of contact.

Instructions for Whitening to Reduce Heat Load

- To reduce the heat load in the greenhouse, use “Super Cooler”, a shading material that is highly effective.
- Follow the manufacturer's instructions and spray the material according to the recommended concentration. Over-shading may cause damage to plants.
- Whiten new films three days after their installation, when paint adhesion is best and it is easy to rinse at the end of the season.
- Before whitening, always thoroughly rinse old films.

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