



Ginegar® manufactures market-leading agricultural cover sheets for use in greenhouses. These advanced cover sheets have unique thermal, mechanical and optical properties that make them ideal for protecting crops, improving plant growth and meeting the different needs of producers worldwide.

We manufacture our agricultural cover sheets using our new five-layer co-extrusion technology. This allows us to process raw materials that guarantee the highest level of mechanical strength and flexibility, complying with all mechanical testing standards.

Our stabilization package, which incorporates multiple materials, ensures the long-term durability of the cover sheets, even in the most difficult environmental conditions.

At **Ginegar®**, we are proud of our versatility and we have a suitable solution for any climate, any region, any crop, and any greenhouse or tunnel. We also have the skills and experience required to manufacture customized solutions, always complying with the specific requirements of our customers.

TYPES OF COVER SHEETS FOR GREENHOUSES AND TUNNELS

SUN COVER

Plastic covers that protect against degradation caused by UV rays

SUN THERM

Plastic covers with thermal properties and UV protection

DRIPLOCK

Plastic covers with UV protection and anti-drip properties

SUN SAVER

Plastic covers with thermal properties, UV protection and Anti-Drip properties

OVER WINTER

Thin plastic covers with UV protection, stabilized for a season

Each type of sheet can be divided into subgroups according to the following:

- Level of diffusion / transparency
- UV blocking level, normal coverage, UV blockers and transmitters



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MAIN CHARACTERISTICS OF THE COVERS

Light diffusion

The light diffusion function improves the efficiency of photosynthesis by increasing the exposure of different parts of the plant to visible light.

This is especially important in model crops with a developed landscape, such as tomatoes, cucumbers, zucchini, peppers, roses and others.

Special additives are used in the cover sheets to promote light scattering, with a minimum reduction to the light entering the greenhouse.

In addition to improving the efficiency of photosynthesis, light diffusion coverage sheets also help reduce the damage caused by direct sunlight on sensitive crops such as peppers and eggplants, as well as preventing sunburns.

Anti-Drip Effect

The Anti-Drip additives act by decreasing the surface tension of the drops of water that are deposited on the plastic, product of the condensation, granting a significant increase in the transmission of light and preventing drips on the crop.

Anti-Fog Effect

The Anti-Fog additive minimizes the formation of water vapor inside the greenhouse, which is produced by the use of films with Anti-Drip.

This allows a maximum transmission of light radiation in the early hours of the morning, contributes significantly to reduce heating costs, improves the passage of light, and also reduces the appearance of leaf diseases such as Phytoftora and Botrytis.

Thermal Effect (IR)

By incorporating an IR additive, the thermal cover sheets absorb and reflect infrared radiation in a range between 7-15 microns (reflected radiation from all bodies in the greenhouse).

This reduces the loss of energy accumulated in the foliage of the plant into the atmosphere and prevents the cooling of the foliage at night, which is essential to maintain higher temperatures in the foliage, especially during cold nights.

In addition, when the temperature of the foliage is higher than the temperature of the air, the plants are drier, which reduces the cases of diseases.

It is shown that the use of thermal cover sheets with the IR additive increases the crop yield compared to the cover sheets without such additive. In addition, thermal cover sheets contribute to heating cost savings.

Anti-Virus or Anti-Insect Effect

By using additives, it is achieved that polyethylene blocks the entry of UV radiation into the greenhouse. These additives provide special properties to the plastic cover of the greenhouse. Anti-Virus effect films provide significant reduction of:

- Damage caused by various insects that are crop pests
- The incidence of viral diseases transmitted to plants by insects
- The proliferation of foliage diseases, especially Botrytis
- The use of fungicides and pesticides that are applied to the crop
- The "blackening" of the red rose petals

Anti-Dust or Anti-Static Effect

It works by reducing the accumulation of dust in the greenhouse cover. Advanced 5-layer extrusion technology allows the inclusion of an additive that reduces dust deposition in the outer (upper) layer of the film. In this way, the top layer is especially smooth reducing dust accumulation.

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