

Additives

Anti-Dust Additive

- Facilitate the removal of dust, soil and dirt stuck on the outer greenhouse surface with rain or a simple wash
- Prevent decrease in the amount of light transmitted through the greenhouse cover

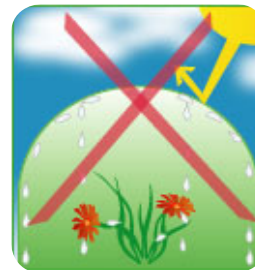
Anti-Fog (Anti-Drip or Anti-Condensate) Additive

Reduce surface tension of condensing water vapor, so that condensation trickles down the plastic wall of the greenhouse film, preventing:

- Damage and disease caused by water dripping blooms and leaves, reducing the need for pesticides
- Scorching of plant leaves caused by sunlight on water drops
- Up to 30% reduction in light availability caused by water droplets on greenhouse film surface, resulting in earlier harvest and higher yield

Avoid usage on structures with metallic supporting wires
Ventilate and/or heat the greenhouse to remove the mist that usually occurs at sunset and dawn.
The anti-fog effect lasts up to 2 years, since the additive migrates to the surface of the film and is slowly washed out by water.

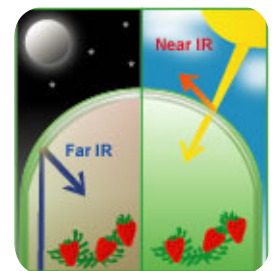
Due to the complex mechanism of its activity and the different parameters affecting its function, MASTERPAK does not provide a warranty for the effectiveness and the duration of the anti-fog performance.



Infrared (IR) Additive

Earlier harvest, higher yield and better quality and uniformity of crops. Resulting in:

- Reduced evapo-transpiration, which increases sugar and taste quality of produce
- Substantial energy savings when heating greenhouses
- Minimize temperature fluctuation:
 - During the day, slightly decreases temperature inside greenhouses by blocking near infrared radiation (NIR; 750- 1400 nms) outside thermal greenhouses
 - During the night, increases temperature inside greenhouses, by creating a barrier to far infrared radiation (FIR; 3,000-14,000 nms) reflected by the soil



Foaming Agent Additive

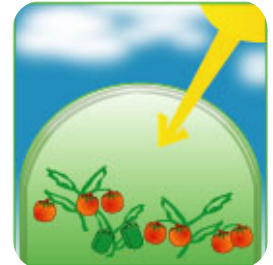
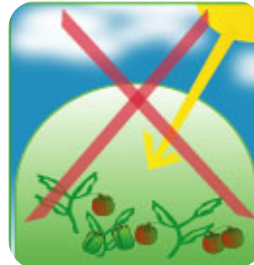
Optimize light diffusion inside the greenhouse cover without decreasing light transmission: prevent shadow spots and reduce high energetic sun rays resulting in:

- Better environment for plant growth during hot season
- Better crop quality and higher productivity

Ethyl Vinyl Acetate (EVA) Co-polymer

In addition to the Infrared Additive, benefit with the EVA additive from:

- Increase in transparency due to a reduction in crystalline patterns
- Enhancement in the film mechanical properties
- Increase in heat resistance on metallic greenhouse structure



Light Diffusion Additive

Break sun radiation into a multitude of rays, optimizing the even spread of light within greenhouses, which:

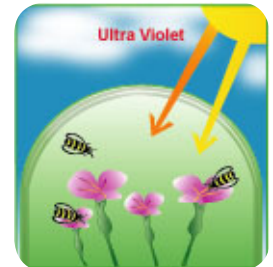
- Increases efficiency of photosynthesis when covered areas of self-shading and trailing plants receive light
- Decreases phototropism
- Decreases potential for sunburn on blooms and leaves



Optimal light diffusion does not impair light transmission. MASTERPAK produces films with different levels of light diffusion, according to your climate and crop requirements.

UV Stabiliser Additive

- Inhibit degradation of PE polymers in greenhouse film without blocking UV radiation
- Contribute, along with Photosynthetically Active Radiation (PAR), to the organoleptic properties of vegetables, fruits and flowers
- Stimulate natural bee, bumblebee and other insect pollination

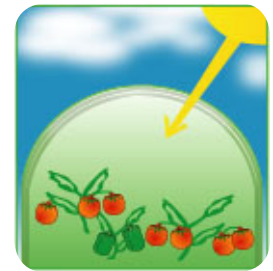


Filters

Disease Control

Block UV sun rays (up to 380 nm):

- Causing insects to lose visual ability inside greenhouses, preventing viral, fungal diseases and crop damage caused by white flies, aphids, red spiders, leaf miners, thrips and other insects
- Resulting in substantial decrease in dependence on and use of agricultural chemicals, contributing to Integrated Pest Management (IPM) programs



Disease control films should not be used in greenhouses requiring insect pollination

Anti-Petal Blackening of Red Roses

Block Far Infrared and UV light (up to 380 nm), preventing rose petals from blackening in strong sunlight

