

Additives

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 of the anti-fog performance



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



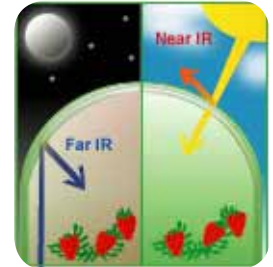
*Optimal light diffusion does not impair light transmission.
MASTERPAK produces films with different levels of light diffusion, according to your climate and crop requirements.*

Infrared (IR) Additive

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

Resulting in:

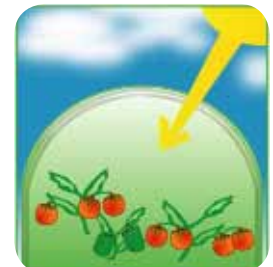
- Reduced evapo-transpiration, which increases sugar and taste quality of produce
- Substantial energy savings when heating greenhouses
- Minimize temperature fluctuation:
 - During the day, slightly decreases temperature inside greenhouses by blocking near infrared radiation (NIR; 750- 1400 nms) outside 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



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



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

