

# EVO AC<sup>®</sup>

8 - layer  
greenhouse films

*raising the standards of  
anti-dripping effectiveness*



**KRITIFIL<sup>®</sup>**  
AGRICULTURAL  
FILMS

 **PLASTIKA  
KRITIS S.A.**

# PLASTIKA KRITIS' 8-layer technology

Plastika Kritis' EVO AC® greenhouse films are manufactured with specially designed 7-layer co-extrusion lines. An 8<sup>th</sup> layer, based on nano-technology, is added on the surface of the film to confer a very long lasting anti-dripping effect.

This new method has been developed by our Research & Development team, aiming to extend the boundaries of existing technology of greenhouse films.

Our scientists are currently working on new 8-layer solutions, which are expected to provide additional benefits to professional greenhouse growers.

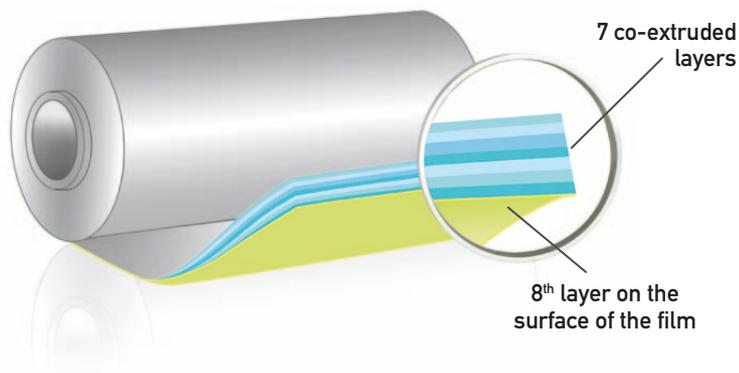


# EVO AC<sup>®</sup>

## 8-layer greenhouse films

### Evolution in Anti-Condensation performance

EVO AC<sup>®</sup> is a new range of anti-dripping greenhouse films made with PLASTIKA KRITIS' 8-layer technology.



- Longest lasting anti-drip in the industry
- No mist formation
- More light in the greenhouse
- Fully active at very low temperatures
- Active at smaller roof slopes
- Possibility to use the film for more years



Classic AD after 18 months



EVO AC<sup>®</sup> after 3 years



# The unique advantages of EVO AC® films

## Superior anti-dripping performance

Traditional anti-dripping films contain additives that migrate to their surface and are gradually depleted within 1-2 years, leaving a film covered with droplets that cut light and damage plants. For growers, that means reduced yield, poorer crop quality and increased use of pesticides. In many cases farmers replace their films before the end of their useful lifetime just because of the problems created by droplets.

**EVO AC® films are equipped with a non-migratory anti-dripping system that lasts much longer, thus offering a decisive advantage in humidity management and making it possible to use the film for more years.**

Our customers report using it already for 4 years and it's still fully active !

## No mist

A serious problem that occurs with traditional anti-dripping films is the creation of mist (fog) inside the greenhouse, usually at dawn and sunset. Mist reduces light and causes humidity to settle on the plants, creating conditions that favor fungal diseases. In fact, many farmers avoid using anti-dripping films for fear of the mist.

**EVO AC® films do not cause mist.**

## More light

**Due to their special composition EVO AC® films allow more light to enter the greenhouse. This becomes even more pronounced when light incidence is low.**

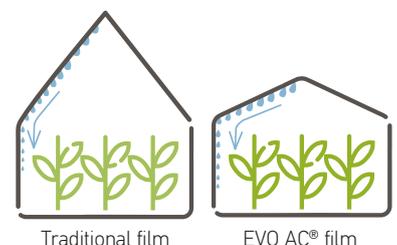
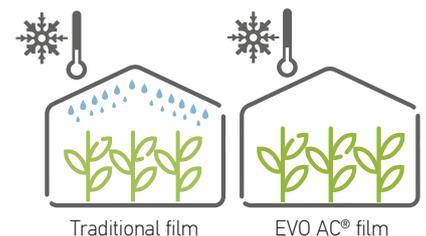
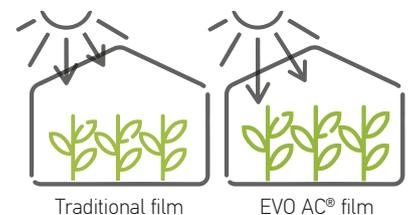
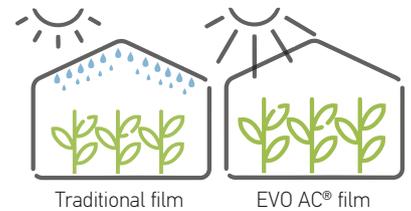
## Functions perfectly at very low temperatures

In very cold climates, when temperature drops below -10°C (14°F), many traditional anti-dripping films lose their effectiveness within a very short time, as the anti-dripping molecules crystalize inside the film and lose their mobility.

**EVO AC® films perform greatly under very low temperatures, yielding a crystal clear droplet free appearance, as our experience in Scandinavia, Canada and northern China has demonstrated.**

## Effective at lower slopes

**EVO AC® films are effective at lower roof slopes than traditional anti-dripping films which require a 30° inclination to perform well.**





## EVO AC® can be designed to best suit your needs

Our philosophy is to tailor the films to the particular needs of every area, greenhouse and crop.

EVO AC® films can be made:

- Ultra Strong, for extreme resistance against strong winds, hail & snow loads
- Thermic, for heat retention during night, energy saving, earlier harvest and higher yield
- Crystal clear, for the highest possible direct light
- With various levels of diffusion, to prevent shadows and sun scorch
- UV-blocking, to reduce pests, diseases and red rose petal blackening
- UV-open, for optimal coloration of certain vegetables, fruits & flowers



## Installation Guidelines

- EVO AC® films must be placed on the greenhouse with the external side of the roll facing the ground.
- During installation it is imperative **not to scratch the film's anti-dripping surface** on the structure or the supporting wires.
- It may take 4-6 weeks from the film's installation and a certain level of humidity till the EVO AC® anti-dripping system becomes fully active.

# EVO<sup>2</sup> AC<sup>®</sup>

## A patented technology of PLASTIKA KRITIS for double-inflated greenhouses

**EVO<sup>2</sup> AC<sup>®</sup>** is a single 8-layer film that separates into 2 different films during installation on the greenhouse, by blowing air between its layers.



Air blowing mechanism

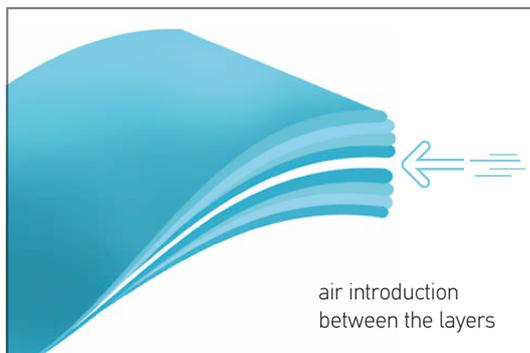


EVO<sup>2</sup> AC<sup>®</sup> during the separation and inflation process

After separation:

- **The outer film** is a crystal clear film, able to withstand mechanical stresses and maximize the amount of light in the greenhouse.
- **The inner film** is a thermic film, to minimize heat losses. It is equipped with PLASTIKA KRITIS' novel EVO AC<sup>®</sup> anti-dripping technology and can be manufactured either crystal clear or with an appropriate level of diffusion.

**EVO<sup>2</sup> AC<sup>®</sup>** permits easier, faster, more economic and safer cladding of double-inflated greenhouses.



# New Innovation Center

Our new Research & Development Center has been designed to create an environment that fosters innovation and permits our scientists to realize their imagination and creativity. It is equipped with a variety of laboratory instruments that allow them to study the properties of materials and develop new solutions that bring value to our customers.

## Disruptive Research

Our Disruptive Research team is headed by scientists with PhD in chemistry or agriculture and works exclusively on medium to long-term projects, targeting to develop completely novel solutions that exceed the present state of knowledge in our industry.



# PLASTIKA KRITIS

## at a glance

PLASTIKA KRITIS was established in 1970. It is one of the leading European manufacturers of agricultural films and masterbatches. The company has a strong international orientation, with production facilities in Greece, France, China, Romania, Poland, Russia, Turkey, and sales to more than 70 countries around the world.

PLASTIKA KRITIS is embracing the principles of green economy towards a better future for humanity. It operates a sizeable plastics recycling plant and produces 14,3 MW of renewable energy at its wind farm and photovoltaic stations.

The information provided herein is based on our research and experience and is given in good faith. PLASTIKA KRITIS warrants that its product conforms to its specifications, however, it is Buyer's responsibility to verify the suitability of the product for his particular use. Since the mechanism of the anti-dripping & anti-fogging effect depends on many parameters that are outside our control (climatic conditions, type of greenhouse, film installation, cultivation techniques etc.), no warranty is given regarding the duration and effectiveness of these properties. The amount of any claim against PLASTIKA KRITIS and PLASTIKA KRITIS' liability relative to the product's properties or performance shall in no event exceed the purchase value of the product. In no event shall PLASTIKA KRITIS be liable for loss of profit or special, indirect or consequential damages.

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