



 **sunmaster**

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For commercial &
independent growers

For more information, visit
www.lumiteco.com



GREENHOUSE FILMS THAT COVER YOU EVERY STEP OF THE WAY.

Sunmaster® greenhouse films have established a reputation for enduring the test of time and surpassing their design requirements, solidifying them as a trusted choice for agricultural application

Product Overview

Innovative technology
propelling performance



Engineered to withstand the harshest elements worldwide, Sunmaster® prioritizes durability. With features like UV resistance, anti-drip technology, and exceptional tear strength, this greenhouse film ensures a long-lasting investment that endures diverse climates.

Sunmaster's® advanced UV stabilization design achieves a balance between solar heat gain and infrared radiation, fostering an ideal climate for thriving plants. This state-of-the-art greenhouse film provides superior light diffusion, minimizing hot spots and shadows, maximizing photosynthesis, and reducing the reliance on excessive artificial lighting - thus promoting sustainable growing practices, increased crop yield, and lower energy cost.

Sunmaster® is user-friendly, easy to install, and requires minimal maintenance, allowing more time for production and less for upkeep.

Competitive Advantages

Tailored solutions designed to specification

Trusted by top growers in North America



Continuous research and development ensures unparalleled product quality. Sunmaster® greenhouse films, renowned for their outstanding quality, offer a lifespan of up to five seasons. This remarkable durability is achieved through the incorporation of specially formulated combinations of UV stabilizers and antioxidants, meticulously designed to shield the films from the harmful effects of UV light and prolonged heat exposure.

With the ability to produce films ranging from 10 feet to 56 feet wide and 2.4 to 6 mils thick, Sunmaster® film leads in multi-layer agricultural film technology. This expertise enables superior, tailored solutions, with unique flexibility to address diverse agricultural applications.

Product List

For commercial & independent growers

EVO AC®

The industry's most advanced film offering the longest lasting anti-condensate.

IR AC MAX

America's best selling long-life thermic film with anti-condensate.

SUNMASTER IV

Flagship clear 4-year film for plants requiring maximum direct sunlight.

OVERWINTER

Seasonal protection for sensitive plants with industry-leading film quality.

TUNNEL FILM

White or clear poly-tunnel film for expert berry growers.

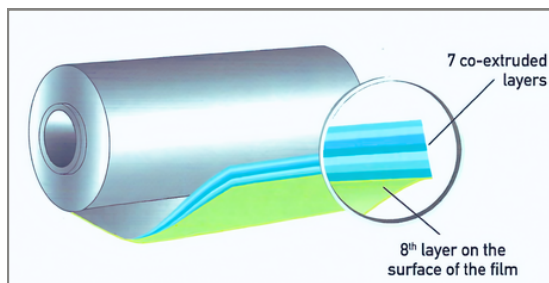
EVO AC®

Industry's longest-lasting
anti-dripping technology

Sunmaster® EVO AC® merges 8-layer technology with an advanced system to eradicate droplet formation on greenhouse film surfaces, preventing mist—a common issue with anti-dripping films. With their unique composition, EVO AC® films facilitate greater light penetration, especially in low-light conditions, and maintain a clear, droplet-free appearance even in very low temperatures. They outperform traditional dripping films on lower roof slopes, which usually need a 30-degree inclination for optimal performance.

Sunmaster® EVO AC® can be customized to suit the requirements of any location, greenhouse, or plant. The film can be engineered to be exceptionally strong, providing resistance against powerful winds, hail, and snow. Additionally, it can be formulated to be thermic, clear, or with varying degrees of diffusion, as well as UV-blocking or UV-open

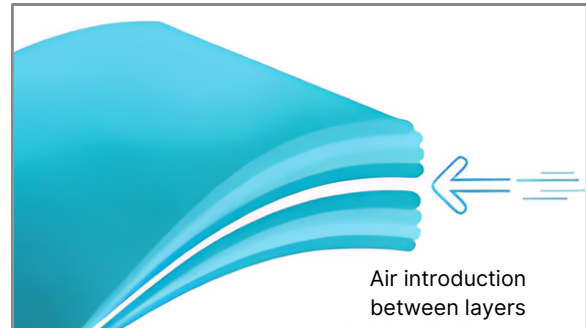
In contrast to traditional films, where additives degrade over time, resulting in anti-drip property loss within 1.5 - 2 years, EVO AC® films retain active additives for extended effectiveness.



EVO2 AC®

Industry's longest-lasting
anti-dripping technology

An 8-layer film divided into two layers with air introduced between them after securely attaching it to the greenhouse roof. This innovative approach allows for easier, faster, more cost-effective, and safer cladding of double-inflated greenhouses.



Outer Film: Crystal clear and resilient to mechanical stresses, maximizing greenhouse light intake.

Inner Film: A thermic film featuring EVO AC® anti-dripping technology, available in clear or varying levels of diffusion.



Film Properties

Providing optimal conditions for growth



Cooling Effect

Designed to either reflect or absorb Near Infra-Red (NIR) Radiation, these films gain effectiveness with rising external temperatures, resulting in a more pronounced temperature contrast.



Thermic Effect

Incorporating EVA and Infra-Red film additives minimizes nighttime heat loss, leading to reduced energy consumption for heating and enabling earlier harvests with increased yields.

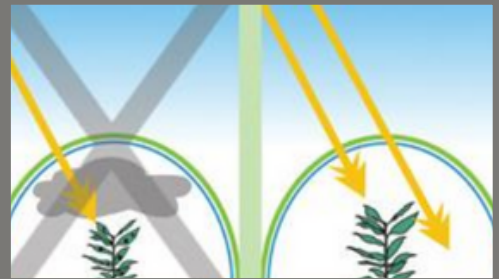
Film Properties

Providing optimal conditions for growth



Light Diffusion

Light diffusion reduces shadows, ensures uniform light dispersion throughout the greenhouse, extending to lower plant areas to prevent burning and offer a gentle cooling effect.



Anti-mist Effect

Developed with an anti-mist feature, our greenhouse film eliminates fog during sunset and dawn, preventing reduced light, humidity, and conditions conducive to harmful fungal diseases in plants.

Film Properties

Providing optimal conditions for growth

Sunmaster® films are tailored to meet the unique challenges of every grower, offering versatility and adaptability for specific needs. Whether combating pests or viruses, our films can be customized to provide precise protection, seamlessly integrating with other control measures for optimal results.

Our specialized disease control films, designed for UV blocking, help reduce reliance on pesticides in accordance with Integrated Pest Management principles. By absorbing UV radiation up to 390 nm, they decrease insect populations like whiteflies and thrips, limiting virus transmission and controlling diseases such as botrytis. These films also prevent petal blackening in red rose cultivation, enhancing commercial value while promoting sustainable practices.

Sunmaster® UV-open films facilitate ample UV light exposure, supporting honeybees and bumblebees for efficient pollination and healthier yields. Infused with carefully selected additives and pigments, these films modify the greenhouse's light spectrum, influencing plant growth patterns such as photosynthesis and photomorphogenesis. This enables growers to enhance yield, regulate growth rates, and effectively manipulate stem elongation or dwarfing.

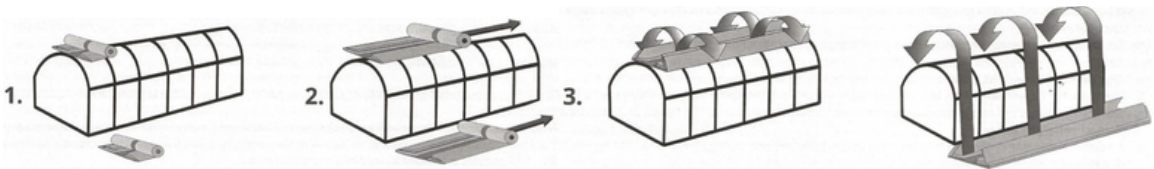


Installation Guidelines

Industry's longest-lasting anti-dripping technology



1. Securely fasten one edge of the film to the greenhouse.
2. Unroll the entire length of the film across either the greenhouse roof or the ground by moving the roll towards the opposite side, ensuring not to unfold the film.
3. Unfold the film and securely fasten it to the greenhouse structure.



When positioning the EVO AC® film roll on the greenhouse, ensure the external side faces downwards, avoiding any scratching of the film's anti-dripping surface.

Please note that it may take 4-6 weeks after installation, along with a specific level of humidity, for the EVO AC® anti-dripping system to become fully active.

In 1942, an innovative engineer at Johnson & Johnson revolutionized mosquito netting for the US Armed Forces with Dow Company synthetic filaments, establishing Lumite. Following World War II, Lumite broadened its offerings to encompass horticulture and agriculture fabrics, in line with their primary objective of suppressing the intrusion of undesired elements into controlled environments.



Now, more than 80 years later, the Lumite ethos remains steadfast. Our commitment to the same unwavering work ethic and manufacturing principles endures as we design cutting-edge, superior solutions that cater to the ever-evolving needs of our discerning customers. Today, Lumite Performance Fabrics find versatile applications - from trampolines to pool covers, mountainside to freeways and beyond.

At Lumite Incorporated, we proudly stand as manufacturers of performance fabrics, grounded in the belief that exceeding customer expectations leads to enduring rewards. Our success is intricately linked to the success of our customers, compelling us to act responsibly. We advocate for environmental protection, fair economic opportunities, workplace safety, and individual respect in all our endeavors.

