

MAIN PRODUCTS

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- 03 Black& Silver Mulch Film
- 04 Black& White Mulch Film
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Silage Film

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Barrier Film

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Greenhouse Film

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- 04 Flame retardant shrink
- 05 wape Film

Mulch Films:

Mulch films are special plastic sheets placed on the soil around your plants. They are a simple and effective tool to protect your crop and significantly improve its growth and yield.

Features and benefits:

- .Stops weeds naturally
- .Saves water
- .Control soil temperature
- .Increase crop yield
- .Durable

Dimensions

THICKNESS	0.008-0.04 mm
LENGTH	As Required
WIDTH	1-4 m
COLOR	Transparent, Black & Silver, Black & White, Brown, Yellow & Black

All the specifications can be customized according to the customer needs.



01.Good heat insulation performance



02.Temperature regulation



03.Side can reflect radiation



04.Biodegradable materials

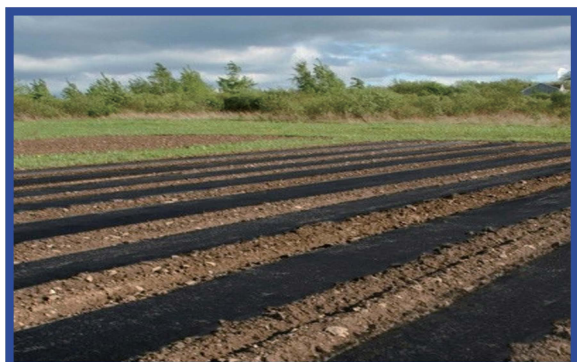
Clear Mulch Film

Used to retain soil moisture, soil solarization and increase soil temperature.



Black Mulch Film

Absorbs and blocks radiation to suppress weed germination while warming the soil. May overheat in hot seasons, potentially causing crop scorching.



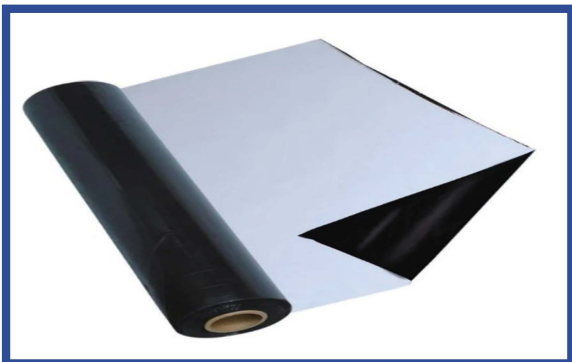
Black & Silver Mulch Film

Three-layer structure with a silver upper surface that reflects sunlight to prevent overheating, enhance photosynthesis, and repel pests; black underside blocks light to suppress weeds.



Black & White Mulch Film

Three-layer composite film with a white surface that reflects light to cool and deter pests, and a black underside that inhibits weeds, conserves moisture, and increases temperature.



Biodegradable Mulch Film

Made from certified biodegradable materials that fully decompose after use, reducing environmental impact from plastic residue.



Perforated Mulch Film

Pre-perforated with regular holes during production for easy planting, reducing labor and avoiding manual punching.



Brown Mulch Film (IRT)

Infrared-transmitting (IRT) film combines the weed suppression of black mulch with better soil-warming performance, especially effective in early season.



Black & Yellow Mulch

Yellow surface attracts insects (e.g., whiteflies) and reduces viral transmission; black layer blocks light and suppresses weeds.



Yellow & Brown Mulch

Yellow top attracts and traps pests, brown bottom transmits heat to the root zone, retains warmth, suppresses weeds, and conserves moisture.

Degradable Mulch Film (PBAT, PLA)

Degradable mulch films are made from proven biodegradable materials. They will gradually and completely decompose after use, providing a solution to the serious environmental problems caused by mulch films remaining in the soil.

Greenhouse Films:

At Xinglian, we engineer our greenhouse cover films to be active, intelligent partners in your cultivation process. They are meticulously designed to do much more than just shield crops from the elements—they create and maintain the optimal microclimate for maximum yield, quality, and profitability.

Our greenhouse films are multifunctional solutions featuring:

Features and benefits:

- .Superior Light Management
- .Advanced Climate Control
- .Condensation Management
- .Long-Term Durability
- .Tailored Solutions

By leveraging our pioneering 5-layer and 7-layer co-extrusion technology, we can precisely combine these functions to create a cover film perfectly suited to your specific crops, climate, and challenges.

Dimensions

THICKNESS	0.01-0.20 mm
LENGTH	As Required
WIDTH	1-26 m
COLOR	Transparent, Blue, Opaque

All the specifications can be customized according to the customer needs.



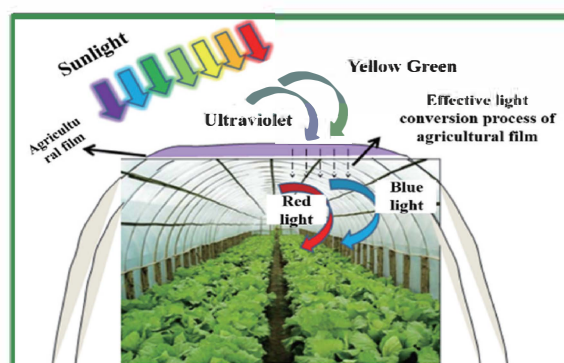
Light Diffusion Film

Scatters light evenly throughout the greenhouse, reducing sunburn and promoting uniform plant growth.



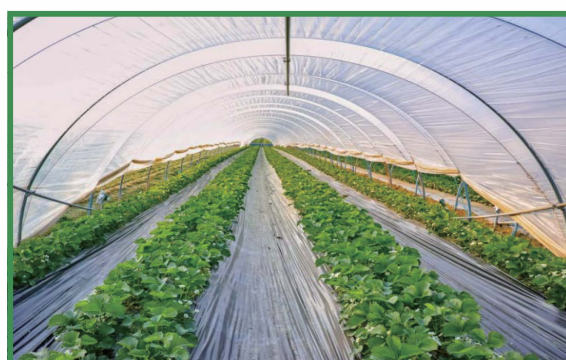
Light Conversion Film

Converts ultraviolet or green light into blue or red light to optimize photosynthesis.



Ultratherm Film

High-insulation film with thermal layers to minimize night-time heat loss and improve temperature stability.



PO Coating Film

Polyolefin-coated film with high light transmission, anti-aging, and anti-drip properties.

Application Field:

Greenhouse、Warehouse、Food Packing、Architecture 、Cowshed.

Through material innovation and process optimization, PO film has achieved breakthroughs in transparency, insulation, durability, and functionality (anti fog droplet), especially suitable for temperature sensitive crop planting environments, which can significantly improve crop yield and quality.

Increase production and improve quality、Green prevention and control、Super durable



01. High clarity



02. Superior anti-fog and anti-drip performance



03. Enhanced thermal retention



04. Relatively long service life



05. superior tensile strength



06. superior tensile strength



07. High-efficiency bactericidal and high-light transmission



08. High-efficiency bactericidal and high-light transmission

Cooling Film

Reflects infrared radiation to effectively reduce greenhouse temperatures in summer.

Micro-bubble Film

Uses micro-bubble structure to enhance thermal insulation and light diffusion, improving heat retention and soft light distribution.

Breathable Film

Allows air exchange to regulate humidity and reduce disease incidence.

White Film

Dual-white high-reflectivity film suitable for high-temperature and high-light regions, providing effective cooling.



Silage Film

Silage films are specialized plastic films designed for the preservation of animal fodder through the process of anaerobic fermentation. Their primary function is to create an airtight seal around compacted forage (like grass, corn, or alfalfa), excluding oxygen to allow beneficial bacteria to produce acids that "pickle" the feed, preserving its nutritional value and preventing spoilage.

Xinglian's silage films are engineered with advanced multi-layer co-extrusion technology to provide superior strength, durability, and sealing performance for this critical application.



Their key applications and benefits are as follow:
 Bale wrapping、Bunker & Clamp Covers、Silo Bags、Superior Airtight seal、
 UV protection、Preserves Nutritional Quality



01. Good airtightness

The forage silage film exhibits excellent sealing performance, which can effectively block the penetration of oxygen, air, and moisture, creating an internal anaerobic environment to reduce spoilage and extend the storage and freshness period.



02. High strength and puncture resistance

The film possesses sufficient strength, including tensile strength, tear resistance, and puncture resistance, ensuring no damage during the forage silage process and maintaining the anaerobic environment.



03. Low-temperature resistance

The film is flexible and resistant to low temperatures, showing no brittleness or freezing cracks in cold environments, making it suitable for use under various climatic conditions



04. Opacity

The film is opaque, ensuring low light transmittance to avoid heat accumulation and prevent damage to forage caused by solar ultraviolet radiation.



05. Improvement of silage quality

Due to its good airtightness, the quality of the anaerobic fermentation environment for lactic acid bacteria is enhanced, thereby improving the nutritional value of the feed, such as high crude protein content, low crude fiber content, high digestibility, and good palatability



Black & White Film

Commonly used for silage covering; black side suppresses weeds and retains moisture, white side reflects heat and light.

Silo Bag

High-strength, puncture-resistant bag film for silage storage, maintaining fermentation quality.

White-Black-white Film

Three-layer white-black-white composite film with high reflectivity and toughness, ideal for long-term silage coverage.

Barrier Films

Barrier films are a category of advanced agricultural films engineered for impermeability. Unlike standard covers, their primary function is to act as a high-performance shield, blocking the transmission of specific gases and vapors such as oxygen and water.

This unique capability makes them an essential tool for targeted agricultural and environmental management strategies, transforming the soil environment beneath them to achieve specific outcomes.

TIF Barrier Mulch Film

Totally Impermeable Film designed for soil fumigation, effectively containing fumigants and improving efficiency with high-barrier EVOH-based technology.

Oxygen Barrier Film

Blocks oxygen transmission to extend the freshness of agricultural products or enable modified atmosphere storage.

Eva Premium Daylight Film



01. High light transmittance:

Combining imported EVA resin with advanced manufacturing processes ensures sufficient sunlight exposure for greenhouse crops. The initial haze value of the film is below 8%, and the light transmittance exceeds 92%. This enhances light intensity inside the greenhouse, promotes early crop maturity, increases yield and profitability, and improves crop quality..



02. High thermal insulation performance

Imported EVA resin combined with special thermal insulation additives strengthens thermal retention. This promotes crop yield and early maturity, with an infrared barrier rate exceeding 75%.



03. Weather resistance:

Using a combination of advanced weather-resistant additives, the product with a thickness of 0.08mm has a recommended service life of 24 months.



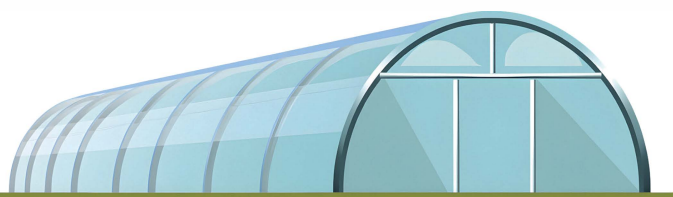
04. Dribbling performance :

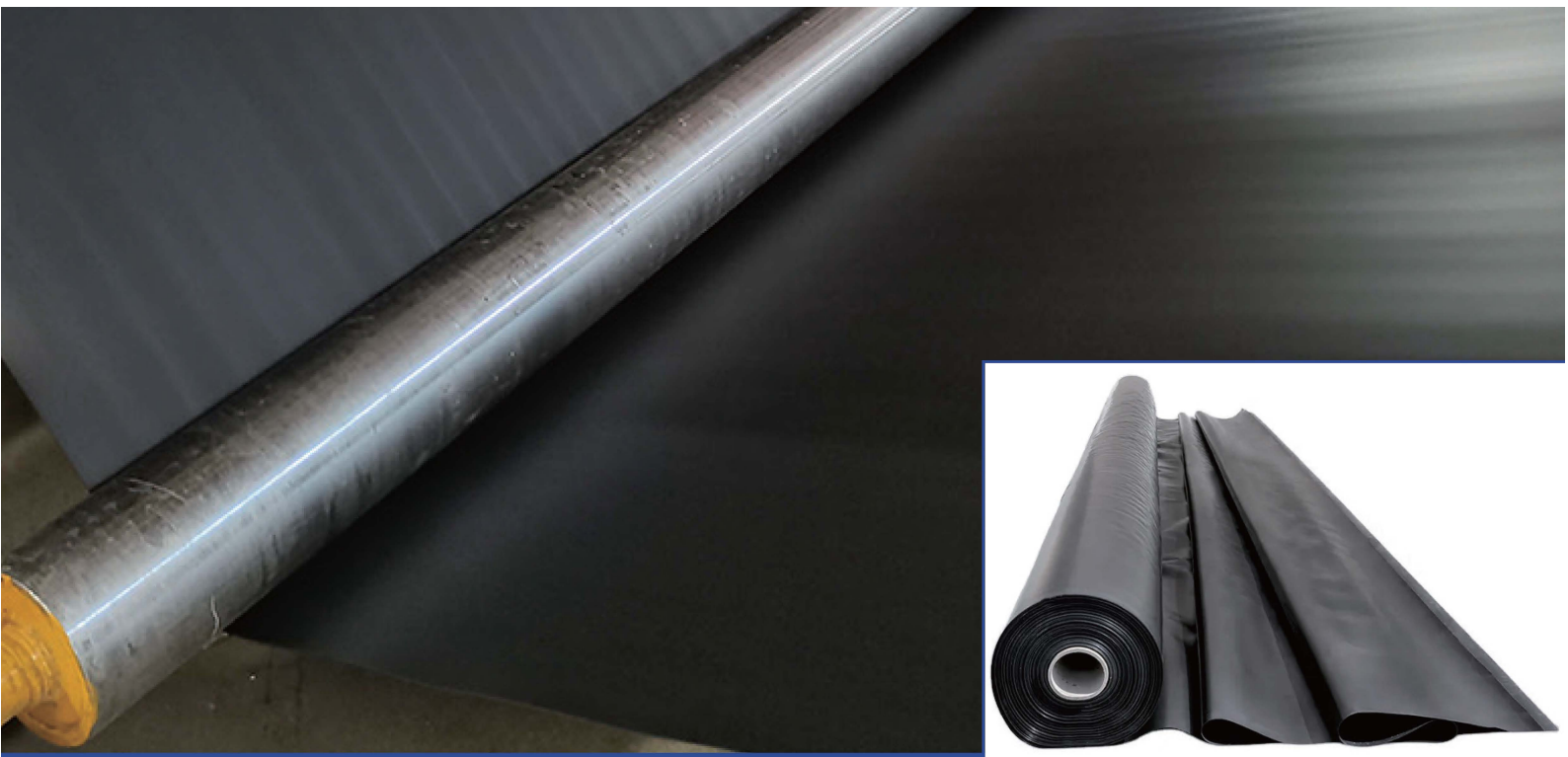
The product uses advanced foreign drip agents, delivering outstanding drip performance with an effective drip period of 6 months.



05. Anti-fog performance:

Gradually eliminating fog generated in enclosed winter environments within a short time, effectively reducing the disease index in greenhouses, minimizing pesticide application, and improving crop quality. This creates an optimal growth environment for green, pollution-free fruits and vegetables.





Special Film for Aquaculture

Application Field:

Livestock Breeding Aquaculture MulberrySilkworm Breeding Green Fodder Storage



01. High strength



05. Temperature regulation



02. High light transmittance



06. Wind and rain resistance



03. Good heat insulation performance



07. UV protection



04. Anti-aging property



08. Puncture resistance



Fish Pond	
Address	Malaysia
Product	1.0mm HDPE
Area	8500m ²



Fish Pond	
Address	Indonesia
Product	1.2mm HDPE
Area	12000m ²



Fish Pond	
Address	Vietnam
Product	1.2mm HDPE
Area	15000m ²



Address	Brazil
Product	1.0mm HDPE
Area	45000m²



Rivers and canals	
Address	Mexico
Product	1.0mm HDPE
Area	38000m²



Rivers and canals	
Address	Bangladesh
Product	1.0mm HDPE
Area	17000m²

Special Film for Flowers



01. High light transmittance:

Special film for flowers usually has high light transmittance, which can ensure that sunlight fully irradiates the flowers, promoting photosynthesis and flower growth.



02. Aging resistance:

It is made of special materials, so the special film for flowers has good anti-aging performance, which can prolong the service life and reduce the replacement frequency.



03. Thermal insulation effect:

With a certain heat preservation effect, the special film for flowers can provide a warm growth environment for flowers in cold seasons.



04. Dust and fog resistance function:

Some special films for flowers also have the function of dust and fog prevention, which can keep the film surface clean and improve the light transmission effect.



05. Durability:

Special films for flowers usually have high wear resistance and tear resistance, and can withstand bad weather and human damage.



06. Moderate UV transmittance:

The requirements for light and temperature in flower planting are quite different from those of ordinary crops. The special film for flowers can moderately transmit ultraviolet rays, which not only meets the growth needs of flowers but also avoids damage to flowers caused by excessive ultraviolet rays.



Diffused Reflection Film



01. Soft and uniform light:

Diffuse reflection films can make the light entering the greenhouse softer and more uniform, avoiding direct sunlight from scorching crops during high-temperature periods. This feature is particularly suitable for flower cultivation with high light requirements.



02. Temperature regulation:

Compared with transparent films, diffuse reflection films exhibit higher temperatures in the morning and evening, while lower temperatures at noon under intense sunlight. This characteristic helps create a more comfortable artificial working environment for crops and prevents scorching.



03. Increasing irradiation area:

Diffuse reflection films effectively increase the proportion of scattered light, resulting in more uniform light distribution and a larger irradiation area. Crops in the greenhouse, regardless of whether they are on the same plane, can receive sunlight, making them suitable for tall-stemmed crops.



04. Strong ultraviolet blocking performance:

The ultraviolet transmittance of diffuse reflection films is typically 20%-40%, while that of ordinary films is 40%-80%. Therefore, diffuse reflection films can reduce ultraviolet damage to crops.

Diffused Reflection Film

The Model of 7-layer Technology, and the Pioneer of Multi-functional Film



05. Influencing the temperature in the greenhouse:

In greenhouses covered with diffuse reflection films, air temperature changes gently. During the day, the temperature under diffuse reflection films is lower than that under ordinary films, which is related to light scattering and energy loss; at night, the temperature under diffuse reflection films is higher than that under ordinary films, which is related to the stronger infrared blocking capacity of diffuse reflection films.



06. Superior anti-aging system:

Diffuse reflection films usually contain high-performance ultraviolet absorbers and stabilizers. Stabilizers can effectively prolong the anti-aging service life of agricultural films, protect the molecular structure of products, and strengthen the anti-aging system.

With its unique light scattering and temperature regulation functions, the diffuse reflection film provides a more suitable growth environment for crops, especially in areas requiring fine management such as flower cultivation.

Application Field:

Cultivation of Medicinal Plants
Flower Cultivation
Cultivation of Leafy Vegetables

Dimensions:

Length : As Required Width :1-26 meters
Thickness:0.06-0.20 Color: white、transparent

SPECIAL FILM FOR EDIBLE FUNGI



01. Providing appropriate light:

Edible fungi have varying light requirements at different growth stages. The greenhouse film can be customized according to the needs of edible fungi to provide suitable light intensity and spectral composition. The white side facing upward reflects sunlight, reducing heat absorption and lowering the temperature inside the greenhouse; the black side facing downward blocks light to create a low-light or dark environment, meeting the demand for darkness during the mycelial growth stage of edible fungi such as *Lentinula edodes* and *Pleurotus ostreatus*.



02. Thermal insulation:

The special film for edible fungi exhibits excellent thermal insulation performance, which can reduce heat loss in the greenhouse and maintain relatively stable internal temperature, providing suitable growth temperature for edible fungi. This helps prolong the growth cycle of edible fungi and increase yield.



03. Temperature regulation

In addition to thermal insulation, some greenhouse films can also regulate temperature fluctuations, preventing excessively high or low temperatures in mushroom houses and providing a relatively stable thermal environment for edible fungi.



04. Reduction of water evaporation

Edible fungi growth requires a high-humidity environment. The greenhouse film has good airtightness, which can reduce water evaporation in the greenhouse and maintain relatively stable internal humidity.



Other Products

Grow Bag

Used for soilless cultivation or container seedlings, facilitating root management and mobility.

Air Duct Film

Used in greenhouse ventilation systems to direct airflow and regulate the indoor environment.

Shrink Wrap Film

Ideal for packaging agricultural products and pallet wrapping, offering good stretch and sealing performance.

Flame Retardant Shrink Film

Reduces flammability under high temperatures, enhancing safety in storage and transportation.

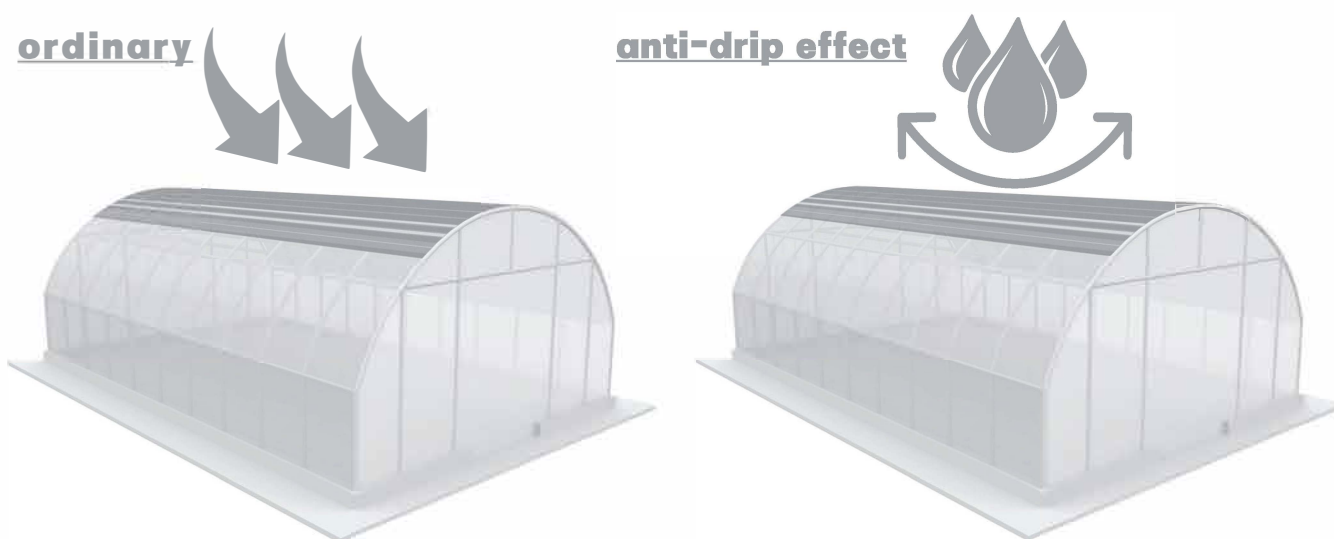
Shrink Wrap Film

General-purpose shrink film, customizable in size and performance based on requirements.

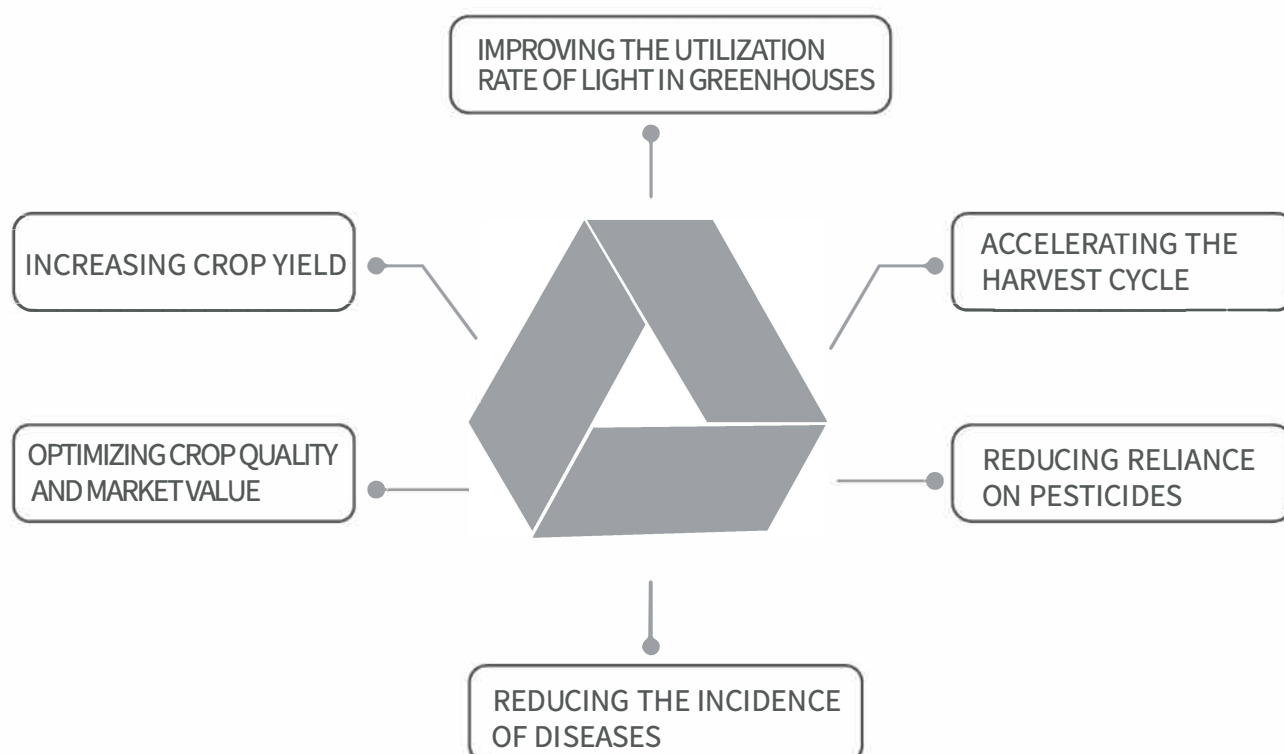


ANTI-DRIP EFFECT:

Condensation on the inner wall of greenhouse agricultural films can significantly hinder plant growth, as it reduces light transmittance by 15-30% and increases the risk of diseases. Our advanced anti-dripping agricultural films incorporate unique additives, which enable water to flow smoothly along the edges by forming a continuous thin coating, thereby preventing the formation of droplets.

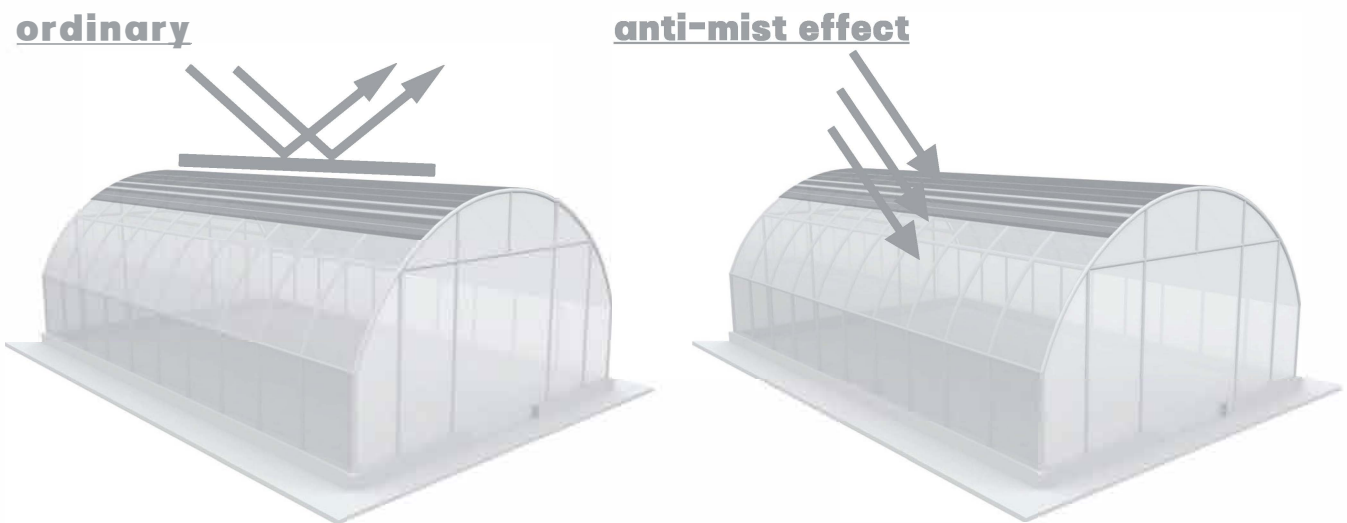


Core Advantages Include:



ANTI-MIST EFFECT:

Incorporating anti-fog additives into anti-dripping greenhouse agricultural films can effectively inhibit the formation of internal fog. This optimization ensures maximum light transmittance during the critical early morning hours while significantly reducing heating costs. Moreover, by improving light penetration and maintaining optimal humidity levels, it also lowers the risk of diseases such as phytophthora and gray mold.



Core Advantages Include:

Light transmittance enhancement function:

Effectively prevent light blocking caused by fog, providing sufficient light guarantee for the healthy growth of plants.

Energy efficiency:

Reduce the need for additional heat preservation, thereby saving costs.

Disease prevention:

Lower the incidence of humidity-related plant diseases, thus improving crop quality.

By integrating anti-fog technology, our greenhouse films can create a more stable and high-yield planting environment, achieving higher yields and lower operating costs.

LIGHT DIFFUSION:

When sunlight passes through the greenhouse film, it is divided into direct light and scattered light. Although scattered light may give the film a slightly hazy appearance, it does not affect the overall light transmittance; the photosynthetically active radiation (PAR) available to plants remains almost unchanged.

Current agricultural research indicates that scattered light offers significant advantages, particularly for spring and summer crops or in regions with intense sunlight. By softening shadows and ensuring uniform light distribution (even reaching the lower parts of plants), scattered light helps prevent sunburn spots and produces a natural cooling effect.

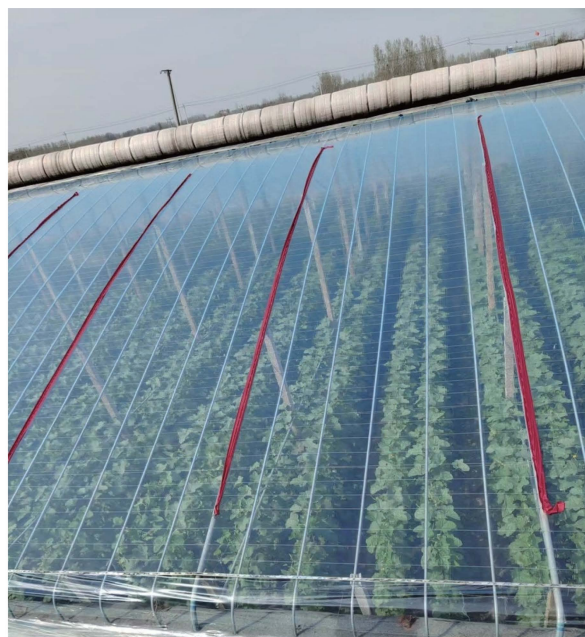
LEVERAGING OUR PROFESSIONAL EXPERTISE, WE PRODUCE AGRICULTURAL FILMS WITH VARYING DEGREES OF LIGHT DIFFUSION TO MEET THE UNIQUE NEEDS OF DIFFERENT CROPS AND ENVIRONMENTS:

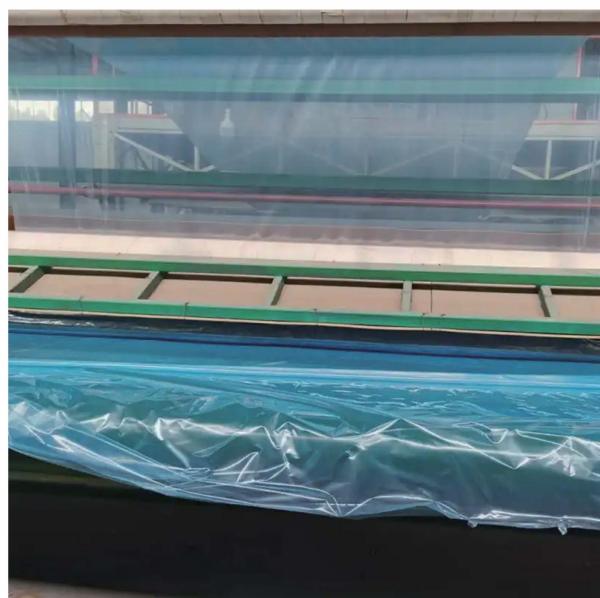
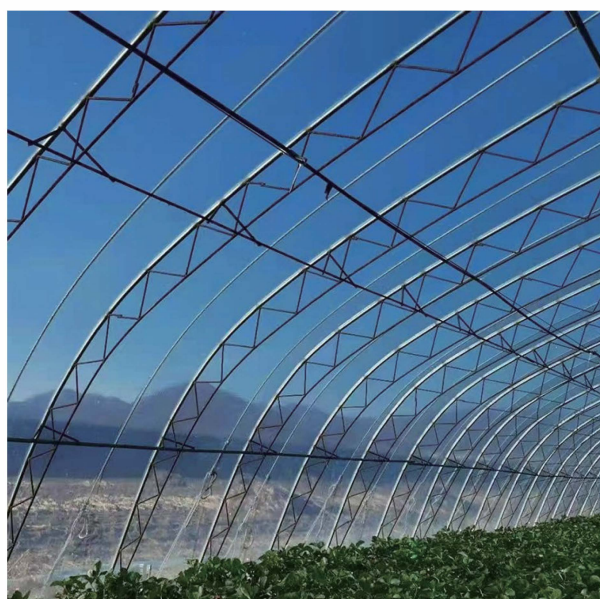
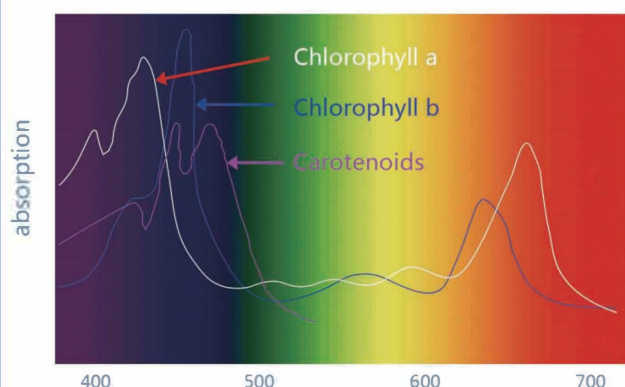
HIGH LIGHT-TRANSMITTING FILMS: Optimized design to achieve maximum transmittance of direct light.

MEDIUM DIFFUSION FILMS (30-60%): Balanced products that take both clarity and diffusion effect into account.

HIGH DIFFUSION FILMS (61-90%): Specifically designed for environments requiring high-intensity light diffusion.

The ideal degree of diffusion needs to be selected according to specific climate, crop type and seasonal conditions to ensure optimal growth and yield of crops.





LIGHT CONVERSION TECHNOLOGY:

Xinglian greenhouse-specific films incorporate specific additives that can adjust the light spectrum entering the greenhouse, thereby influencing plants' growth behaviors such as photosynthesis and photomorphogenesis.

CORE ADVANTAGES INCLUDE:

INCREASING CROP YIELD:

Optimizing light quality can enhance the efficiency of photosynthesis, thereby improving crop productivity.

REGULATING GROWTH PATTERNS:

Customized light spectra can promote or delay plant growth, enabling precise control over the development cycle.

CONTROLLING PLANT ARCHITECTURE:

Specific light adjustments can induce stem elongation or dwarfing, shaping ideal plant forms for various agricultural applications.

The use of light-selective agricultural films is a strategic means of managing plant development, which can improve crop performance and quality.

COOLING EFFECT:

In regions with intense sunlight and high temperatures (such as tropical climates), there is a growing market demand for greenhouse films that can reduce excessive daytime heat and create a cool environment. This is particularly important for nurseries and shade-loving ornamental plants.

Our specialized films can reflect and/or absorb near-infrared (NIR) radiation—the main part of the solar spectrum that causes greenhouses to absorb a lot of heat during the day and is not used by plants for photosynthesis. By regulating NIR radiation, these films can effectively lower the temperature inside the greenhouse. Studies have shown that NIR reflective coatings can reduce the greenhouse air temperature by approximately 0.3 to 0.9°C and the leaf temperature by about 2.3°C.

CORE ADVANTAGES INCLUDE:

Temperature Regulation: Maintain a cool environment in the greenhouse and reduce heat stress on plants.

Energy Efficiency: Reduce the need for artificial cooling systems to achieve energy conservation and consumption reduction.

Improved Plant Health: Lower the risks of wilting, sunscald, etc. caused by high temperatures.

Save water and fertilizer costs.

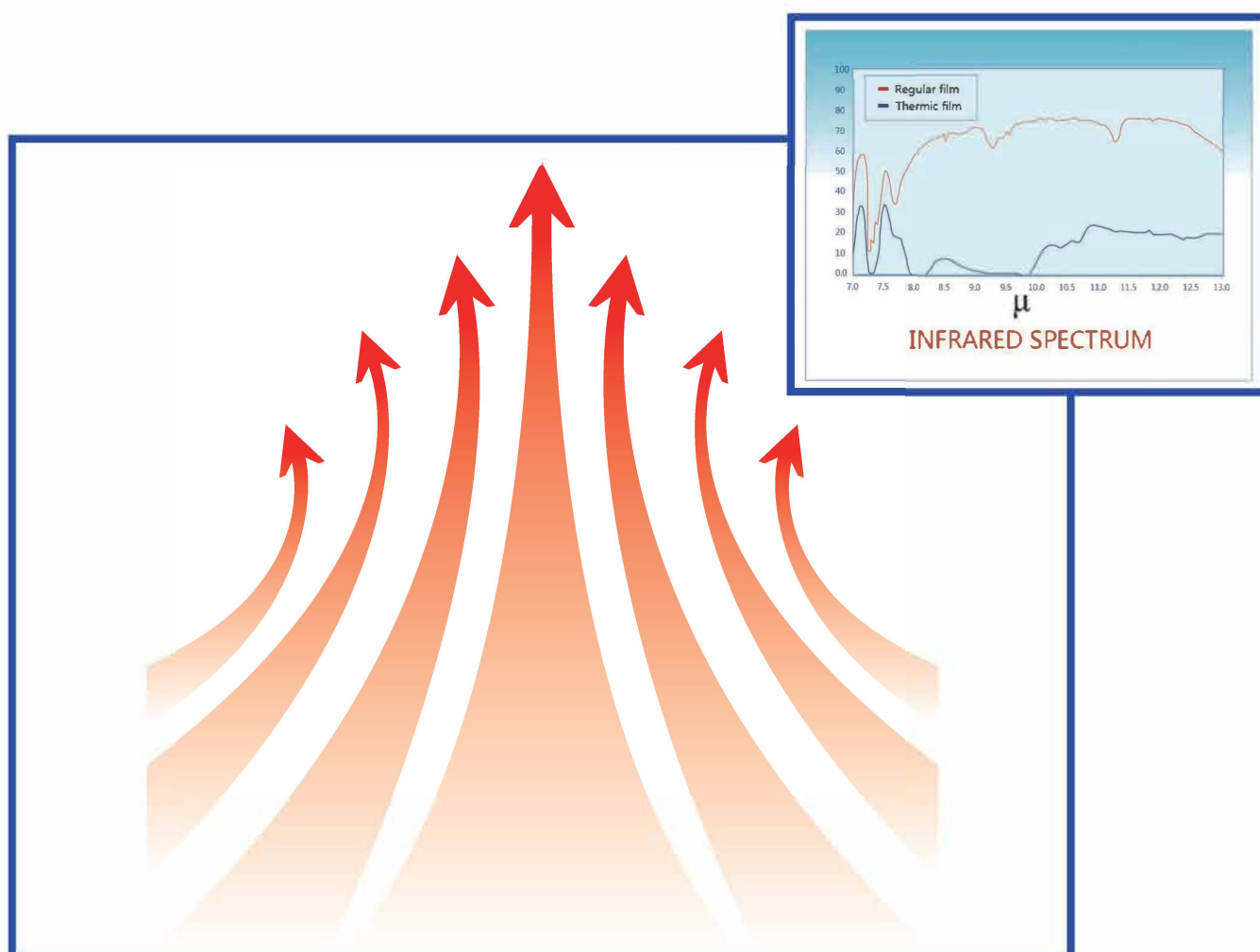
Reduce transpiration.



It should be noted that the effectiveness of such cooling films is affected by external temperatures—the higher the external temperature, the more significant the cooling effect inside the greenhouse. However, in cool climate regions or during winter, the use of near-infrared (NIR) filtering films may lead to an unfavorable drop in internal temperatures of unheated greenhouses. Therefore, careful consideration should be given to their application scenarios based on regional climatic conditions and the specific needs of crops.

THERMAL EFFECT(IR):

Our professional thermal insulation agricultural films incorporate infrared (IR) additives, which can effectively absorb infrared radiation and minimize heat loss at night. This makes the nighttime temperature drop more gently, maintaining the greenhouse temperature 3-4°C higher than ordinary films.



FEATURES AND ADVANTAGES:

Frost and Low-Temperature Protection: Shields crops from frost damage and adverse effects of low temperatures.

Gradual Temperature Decline & Nighttime Warming: Ensures controlled temperature reduction while elevating overall nighttime temperatures.

Reduced Heating Energy Consumption: Minimizes additional heating requirements for significant energy savings.

Increased Crop Yield: Creates optimal growing conditions to enhance agricultural productivity.

Earlier Harvest: Accelerates plant growth cycles for an advanced harvest period.

Improved Crop Quality: Maintains favorable growth conditions to produce higher-quality crops.

ANTI-DUST EFFECT:

By adopting advanced 7-layer co-extrusion technology, our agricultural covering film incorporates anti-dust additives in its top layer. This design creates an exceptionally smooth surface that significantly reduces dust accumulation.



ALAGE-PROOF:

In humid regions, algae growth on greenhouse film surfaces significantly reduces light transmittance, negatively impacting crop yields. To address this, Xinglian incorporates dedicated additives into its greenhouse films to inhibit bacterial growth and prevent algae formation at the source. This solution ensures consistent light transmission while reducing the need for frequent cleaning, supporting healthy plant growth and enhancing operational efficiency.



DISEASE CONTROL EFFECT:

Xinglian's professional UV-resistant greenhouse films can absorb ultraviolet rays with wavelengths up to 380 nanometers, and have significant advantages in the integrated management of diseases and pests:



CORE ADVANTAGES INCLUDE:

PEST POPULATION REDUCTION:

By limiting UV transmission, this agricultural film effectively decreases populations of whiteflies, thrips, leafminers, aphids, and other insects, thereby reducing the risk of insect-borne virus transmission.

DISEASE CONTROL:

The film suppresses sporulation of pathogenic fungi, helping to manage diseases such as gray mold (*Botrytis cinerea*).

CROP QUALITY ENHANCEMENT:

Prevents darkening of red rose petals, improving their commercial value.

IMPORTANT NOTE:

When using this film with bumblebees as pollinators or for crops with purple flowers (e.g., eggplants), preliminary testing is recommended, as UV blocking may affect certain plant and insect behaviors.

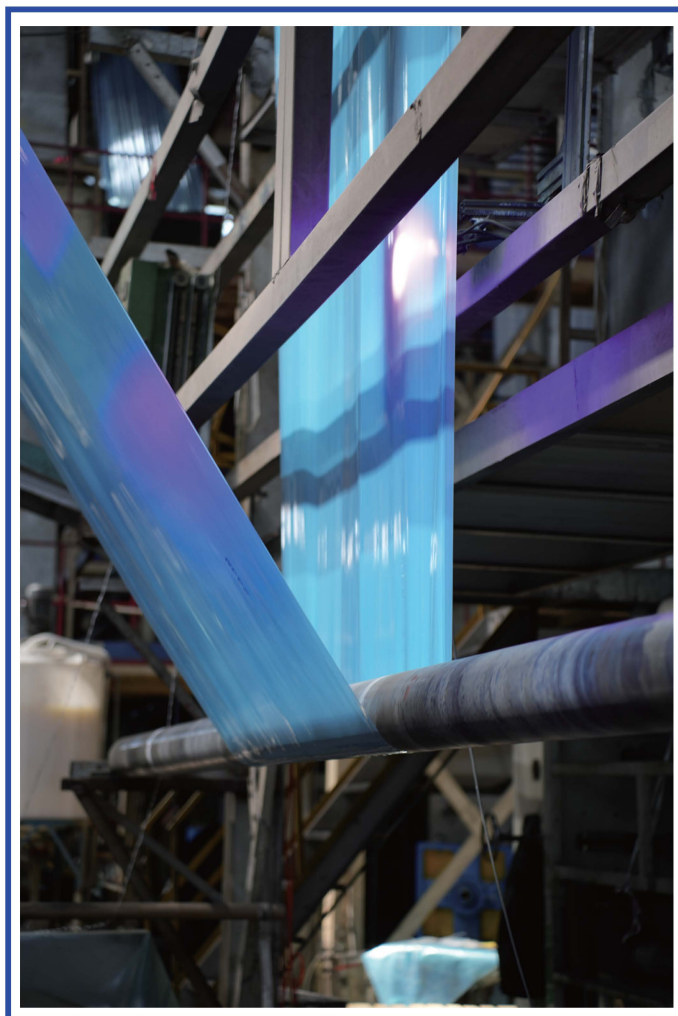
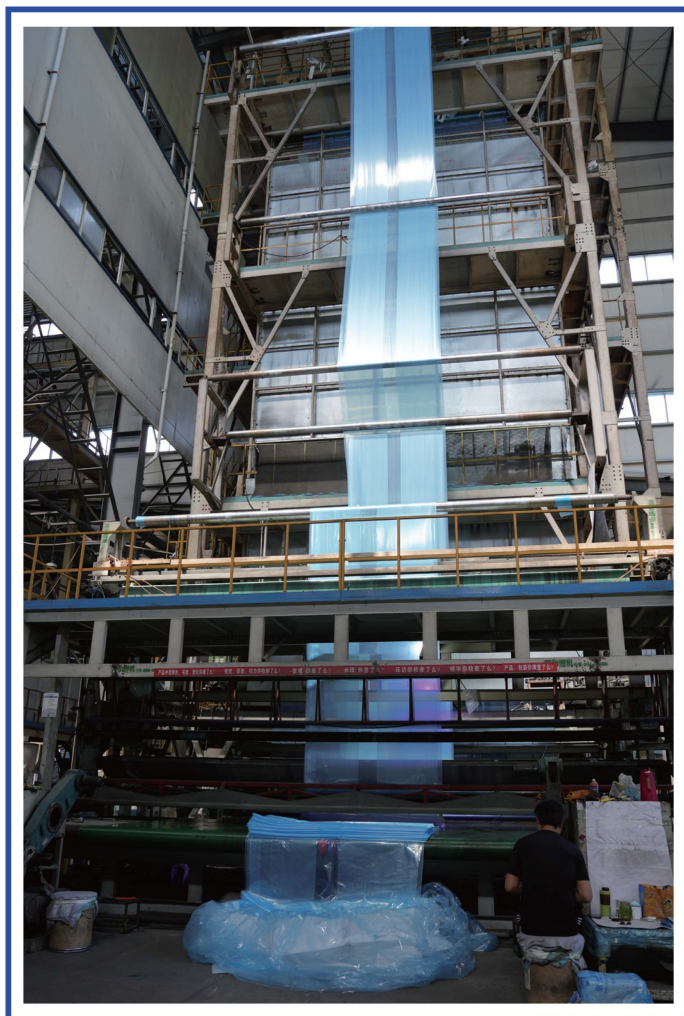
THE SERVICE LIFE OF AGRICULTURAL FILMS

The durability of our films depends on their own quality, technical performance, and specific application conditions, such as greenhouse type, installation method, and pesticide spraying conditions.

LONG SERVICE LIFE:

Our series of products are characterized by a service life of up to 7-10 years. They adopt an advanced compound system of ultraviolet stabilizers and antioxidants, which can effectively resist long-term ultraviolet radiation and high-temperature environments.

All our additive formulas are independently developed and produced. Relying on more than 31 years of technical experience in ultraviolet stabilizers, we ensure consistent quality.



EXCEPTIONAL STRENGTH:

With our extensive professional knowledge, careful selection of high-quality raw materials, optimized processing techniques, and strict quality control, our films exhibit exceptional mechanical durability.

We have also developed a new generation of ultra-durable films using advanced high-strength polymers. These innovative films enhance safety in strong winds, and while maintaining or even surpassing the strength of traditional films, they achieve cost advantages through a thinner design.

