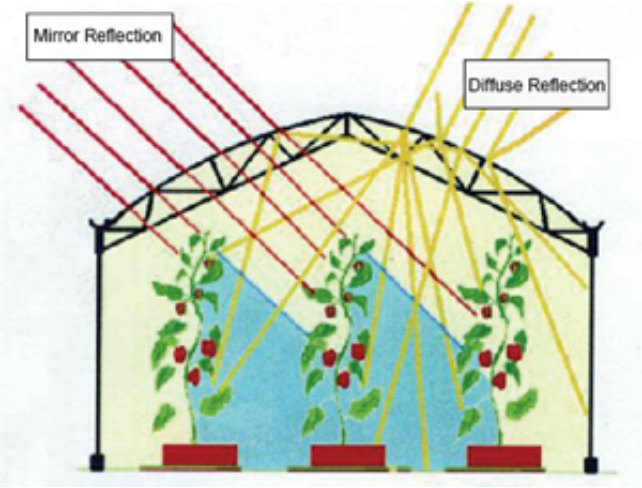
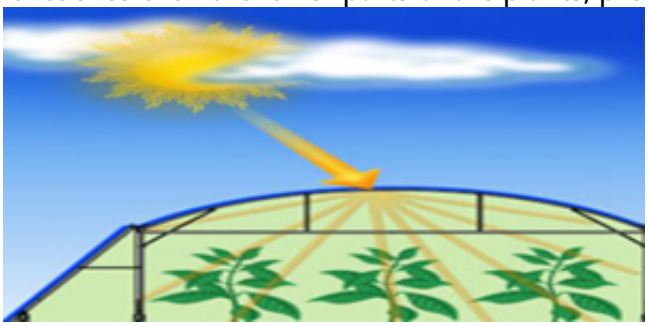
Well-designed Galvanized Steel Auto Compression Springs - Greenhouse Diffusion Plastic Film, Polyethylene Covering, UV Resistant, Diffued light - Fenglong Greenhouse

What is Greenhouse Covering Film?
Greenhouse covering film, also known as agricultural plastic, polyethylene, poly film or greenhouse plastic, is a durable and inexpensive way to cover your little backyard hobby greenhouse or large commercial greenhouse project, it is also widely used in single and double layer greenhouse.

Optimized Light Distribution:
Diffused light reaches plants from many different angles while regular light transmission remains the same, optimizing light distribution in all parts of the greenhouse
Light from the sun passing through the covering film and entering a greenhouse is split into direct and diffused. Light diffusion causes a film to look hazy to human eye – this doesn't mean, however, that the film is less transparent. The PAR (photosynthetic active radiation) received by plants is the same



Protecting plants from sunburn:
Light diffusion reduces shadows, ensures more uniform distribution of light in the greenhouse so that it reaches even the lower parts of the plants, prevents burnings and offers a moderate cooling effect.



Earlier Harvest, Higher Crop Yields:
It is now generally accepted that diffused light has a positive effect on plant growth, especially for spring and summer crops and in areas with strong sunlight.
The diffusion film is very popular all over the world, which is used widely in France, Spain, Israel, Turkey, Australia, African countries etc., because the diffusion film with uniform distribution of light is

good for the plant's phot-osynthesis.
It is proved by experiments that, regardless of planting cucumber, tomato, or flowers, the diffusion film can in-crease the yield of them
The increased yield percentage is as follows: Cucumber(4-10%),Tomato(8-10%),Mixed Sweet Pep-per(5%),Rose(5%). This increased yield is caused by the lights of Diffusion film, the Diffusion lights are going to all parts of plant, making the photosynthesis more sufficient.



The Crops under regular film



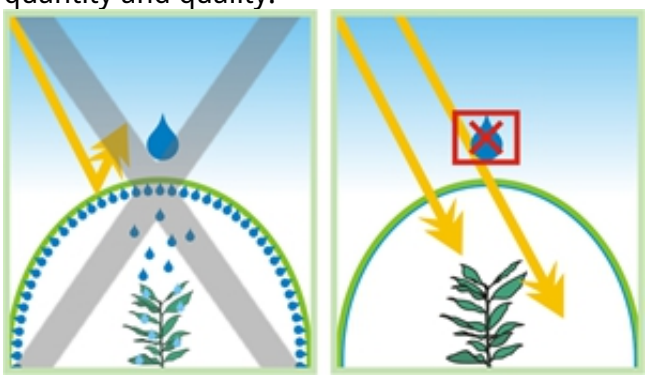
The Crops under diffusion film

UV Protection, Better Durability and Longevity:
Advanced UV stabilizers maximize physical properties for the longer life of film and help protect it from chemical damage. Apart from the occasional tornado, hurricane, or hailstorm, more damage is done to greenhouse film by sunlight than any force of nature. It's the ultraviolet component of sunlight that does the damage, resulting in yellowing and weakening of the covering film. Fortunately, you can buy greenhouse film that has built-in resistance to the damaging effects of UV radiation. If you buy a plastic that does not have UV protection, you can expect a very short service life from that poly – very possibly no more than a single year. Most greenhouse films that ARE treated with UV protection, on the other hand, have a service life rating of from 3 to 5 years.



Anti-Drip& Anti-Dust
Droplets formed at the inside surface of greenhouse films due to water-condensation have negative consequences on plant quality and growth, as they reduce light transmission and increase the incidence of certain diseases, To prevent this from occurring, we use a special anti-drip (AD) additive,

which flattens the water droplets into a layer of water that runs down the sides of the greenhouse. So the film with the function of Anti-Drip can reduce the need for pesticides, delay the onset of diseases, significantly improve light transmission, promote early harvesting, and contribute to enhanced yield quantity and quality.



By using our advanced multi-layers extrusion technology, we add a dust-reducing additive to the top layer of our cover films. In this manner, the upper layer of the cover film is especially smooth and this significantly reduces the accumulation of dust.



Stronger Puncture and Tear Resistance

An unique manufacturing process conditions and quality control procedures provide to the films excellent mechanical strength, we are using special high-strength polymers. Our advanced Japanese resin technology provide TOYOTANI's films with superior tear strength, These films offer additional safety in critical areas with very strong winds.

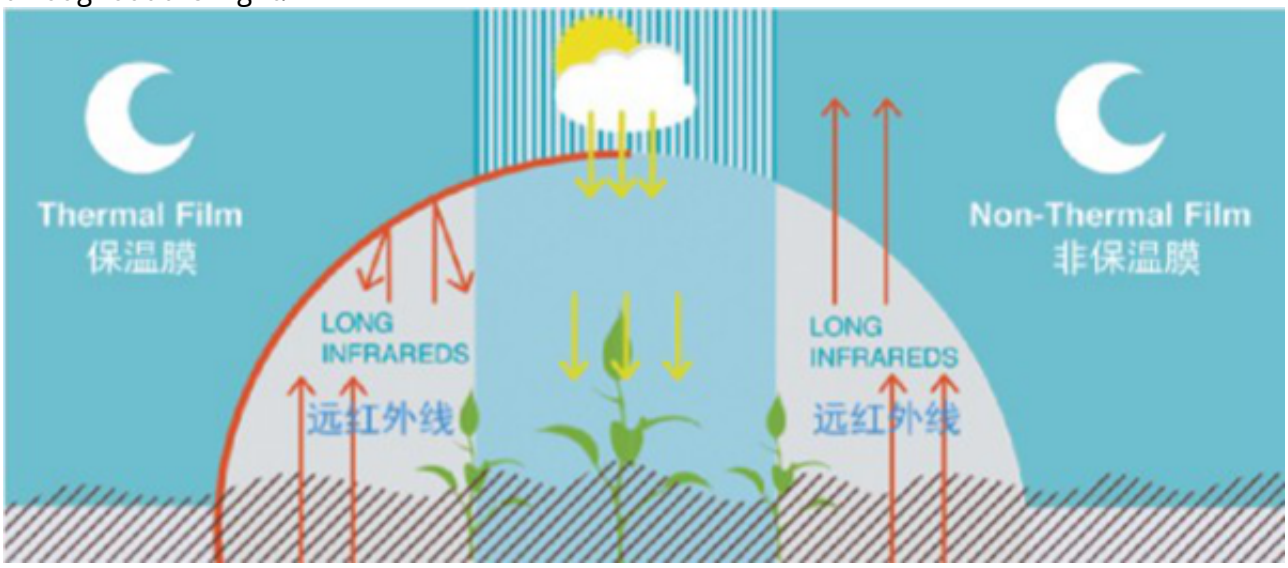


100% Imported Brand New Materials

Fenglong has 20 years experience and careful selection of raw materials, we import the additives from Japan, and other materials from USA, Japan, Iran, Saudi Arabia, to keep the film top quality.

Better Thermic Effect

TOYOTANI® special Multi-layer films, containing a combination of EVA and Infra-Red additives skillfully structured in the middle layers, which absorb the Infra-Red radiation and reduce heat losses throughout the night.



Premium Hydrotalcite Material To Keep Better Thermicity

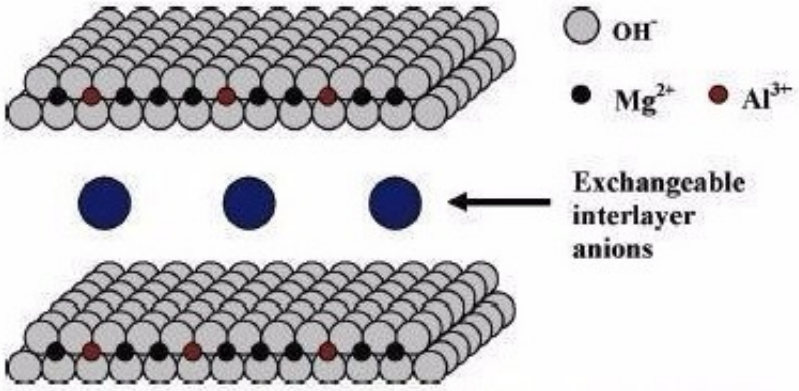


FIGURE 1. Structure of Mg^{2+}/Al^{3+} LDH, $[Mg^{2+}_{(1-x)}Al^{3+}_{x}(OH)_2]^{x+}[Cl^-]_x$.



The advantages of thermic films are:

- Protection from frost and low temperature.
- Smoother temperature drop and higher night temperatures overall.
- Reduced energy consumption for heating.
- Higher crop yield.
- Earlier harvesting.
- Better quality of crops.

How do thermal Greenhouse films work?
During the day in a greenhouse, the sunlight, comprised of both visible light and short wave infrared light, is absorbed by the plants, soil and materials of construction which results in them heating up. During the night all objects that have absorbed this energy will release it as long wave infrared radiation. A thermal film will absorb and re-radiate this energy, maintaining a higher greenhouse temperature and therefore a lower heating cost. Thermal films generally pay for themselves during the first year of coverage

Custom Cut Length and Width
Special cut lengths and width are available, so you can order the exact amount at different size according to your different greenhouse disign.



Product link：https://www.wigglewires.com/?p=275599