

Whatever you grow - We've got it covered

SunMaster®



SuperThermic® PolyTunnel Covers

USE SunMaster SuperThermic for

- All crops which will be heated
- All crops where colour, especially reds and blues is important
- Vegetables
- Flowers
- Soft Fruit
- Bedding plants
- Over wintered nursery stock where frost protection is required

Specification	
UV Guarantee	5 years
Life expectancy	7-8 years
Thickness	150 mu
Polymer make up	co extruded Pe/MLLdpe/EVA
Diffused	yes
UV status	full UV transmission
Thermic	superthermic ~ 95%
Anti Fog	yes
Anti Drip	yes
Light Transmission	~89%
Appearance	milky white

Introducing the latest technology in energy saving. Super Thermic technology is a must for any tunnel which is to be heated. Good thermal films retain 85% of the stored heat. NEW SunMaster SuperThermic retains 95% of stored heat.

Heat Retention - How it Works

Thermic films allow short wave infra red from the sun to heat up the soil and contents of the tunnel. When the air temperature drops the hotter objects radiate the heat back again as long wave infra red. What a thermic film does is reflect this heat wavelength back to the ground/contents again, reducing the heat lost through the film. Until about 15 years ago a thermic film would reflect back into the structure about 65% of this heat. With the introduction of SteriLite Premium this was increased to 80-85% reflection. Now with SunMaster SuperThermic this is boosted to a massive 94-95% reflection/heat saving. Initial research is showing that this will give energy reductions of as much as 30% over a non thermic film.

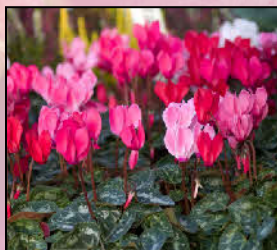
+ Natural Daylight UV transmission.

Its only in recent years that it has been possible to create a polythene which allows the full spectrum of natural UV daylight through. This full UV spectrum film has a dramatic effect on flower, fruit and foliage colours, particularly on the blues and reds as UVA/B (280-400 nms) are the spectral wavelengths that are required to intensify these colours. Normal films and glass block the UV below 350 Nms. but SunMaster SuperThermic transmits the same full spectrum of natural UV light that plants would get if they were grown outside.

Research has shown that natural UV levels also produce a **more compact sturdier plant** which is more resistant to disease. Plants root out into the pot better under SunMaster natural UV films than under conventional types of polythene.

SunMaster Diffused films also have an additive which reflects part of the infra red thermal spectrum. This reflection will not only make the greenhouse up to **10% cooler** than a clear film in high sunlight conditions, but also gives a much more pleasant working environment. More importantly when there is a lot of IR A/B (700-3000 Nms) it lowers leaf temperatures, reducing tip burning and reducing moisture stress on the leaf and plant.

SunMaster Diffusion reduces the overall light levels to ~ 89% but in fact winter light levels under SunMaster diffused are considerably higher than under glass or clear polythene films. This is because the light is deflected into the structure by the diffuser, rather than being reflected off again.



Flower growers use SunMaster Diffused UV natural films to increase colour intensity of the flowers, and sometimes to reduce stem length. SunMaster diffused also reduces flower and leaf stress in strong sun conditions. Should bring forward harvest in spring and lengthen the growing season in the autumn.

Vegetable and Salad Leaf growers are also using SunMaster UV natural films so that they can now grow red leaf salads under cover. Natural UV levels can also increase dry

weight matter of certain crops. Should increase earliness of spring crops and shorten autumn cropping times

Soft fruit growers like SunMaster SuperThermic UV natural films because they get redder fruit with less white tips and less white around the calyx. It is also said to increase flavour although this test is subjective because of individuals personal tastes. Earliness of marketability is still to be tested.

Nursery Stock growers use SunMaster Diffused to give over winter protection and bring the crop to market earlier than under a clear film. Should protect Pieris etc. from late frosts without using any heat.

Bedding Plant Growers use SunMaster SuperThermic polythene to reduce energy consumption and heating costs.