

# Greenhouse films 2020



folitec offers you greenhouse films for all areas of use in- and outdoor.



# Overview

## Greenhouse films



Film	UV Tube	Lumitherm / UV5	UV M 42 window plus	UV M 42 window high diffused	Lumisol clear AF	Lumisol Diffused AF
<b>Description</b>	UV tubular film.	The proven film.	The new UV-B permeable economical film.	The new, high diffuse UV B open film for Summer-cultivation for strawberries and raspberries.	The UV-B permeable film.	The diffuse and UV-B permeable thermic film.
<b>Performance class</b>	☆☆	☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆☆	☆☆☆☆
<b>Area of use</b>	For side aeration and gables with steel cables (System Filclair)	Single covering Inner film for double covering Outer film for double covering	Single film tunnel, Inner film for double covering Outer film for double covering	Single film tunnel, Inner film for double covering	Single covering Inner film for double covering Outer film for double covering	Single covering Inner film for double covering with Lumisol clear AF
<b>Colour</b>	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
<b>Thickness</b>	200 µ	200 µ	180 µ 200 µ with Thread	180 µ 200 µ with Thread	200 µ	200 µ
<b>UV guarantee</b>	5 years (90 kLy / Year)	5 years (90 kLy / Year)	4,5 years (90 kLy / Year)	4,5 years (90 kLy / Year)	5 years (90 kLy / Year)	5 year (90 kLy / Year)
<b>Transparency</b>	Approx. 89 / 90 % total Diffuse light 20 %	Approx. 88 / 90 % total Diffuse light 30 %	Approx. 89 / 90 % total Diffuse light 20 %	Approx. 86 % total Diffuse light 80 %	Approx. 88 / 90 % total Diffuse light 30 %	Approx. 87 % total Diffuse light 90 %
<b>Cooling properties</b>	No	No	No	Yes	No	Yes
<b>Thermicity</b>	> 60 %	> 80 %	> 70 %	> 80 %	> 80 %	> 85 %
<b>UV-A Permeability</b>	Yes (from 340 nm)	Yes (from 340 nm)	Yes	Yes	Yes	Yes
<b>UV-B Permeability</b>	No	No	Yes > 70%	Yes > 60%	Yes > 70%	Yes > 60%
<b>Anti-condens</b>	No	No	No	No	Yes Better light transmission Water has to rundown on film.	Yes Better light transmission Water has to rundown on film.



# UV Tube

## UV tubular film



### Practical use



### Description

UV stable tube film. This quality has outstanding characteristics regarding transparency and mechanical load. When installed correctly, it should retain its durability for longer than 5 years.

### Performance class

☆☆

### Area of use

### For side aeration

### Colour

Transparent

### Thickness

200  $\mu$

### UV guarantee

5 Years (90 kLy/Year)

### Transparency

Approx. 89 / 90 % total

Diffuse light 20 %

### cooling properties

No

### Thermicity

> 60 %

### UV-A Permeability

Yes (from 340 nm)

### UV-B Permeability

No

### Anti-Condens

No

### Widths

0,80 m / 1,05 m / 1,30 m / 1,66 m / 1,80 m / 2,10 m / 2,40 m

Further dimensions by request

### Length

As required



# Lumitherm / UV5

The proven film



## Practical use



## Description

Thermal greenhouse poly features excellent quality regarding translucence and mechanical stress. Installed properly it lasts clearly longer than 5 years.

## Performance class

☆☆☆

## Area of use

**Single covering,**  
**Inner film for double covering**  
**Outer film for double covering**

## Colour

Transparent

## Thickness

200  $\mu$

## UV guarantee

5 years (Central Europe 90 kLy/year)

## Transparency

88 / 90 % total

Diffuse light 30 %

## cooling properties

No

## Thermicity

> 80 %

## UV-A Permeability

Yes (from 340 nm)

## UV-B Permeability

No

## Anti-Condens

No

## Widths

6,00 m / 6,50 m / 8,00 m

10,00 m / 12,00 m / 14,30 m

Tubes 4,50 m / 5,00 m / 6,25 m / 7,15 m

Further widths by request

As required

## Length



# UV M 42 window plus

The UV-B permeable economical film



## Practical use



## Possible advantages

- Light transmission over the whole spectrum
- Less pesticide use
- Improved color (ornamental plants)
- Improved aroma (vegetables)
- Stronger compact plants
- Reduced growth in height
- No lengthening caused by lack of UV

## Description

The new, improved UV-B permeable economical film for earliness in fruit growing.

## Performance class

☆☆☆☆

## Area of use

Single film tunnel  
Inner film for double covering  
Outer film for double covering

## Colour

Transparent

## Thickness

180  $\mu$  / 200  $\mu$  with Thread

## UV guarantee

4,5 years (Central Europe 90 kLy/year)

## Transparency

Approx. 89 / 90 % total  
Diffuse light 20 %

## cooling properties

No

## Thermicity

> 70 %

## UV-A Permeability

Yes

## UV-B Permeability

Yes > 70 %

## Anti-Condens

No

## Widths

6,00 m / 6,50 m / 8,00 m / 8,50 m / 9,00 m / 10,00 m  
11,00 m / 11,50 m / 12,00 m / 12,50 m / 13,00 m  
13,50 m / 14,00 m / 15,00 m

## Length

Further widths by request  
As required



# UV M 42 window high diffused

The new high diffuse UV B open film



## Practical use



## Possible advantages

- Light transmission over the whole spectrum
- Less pesticide use
- Improved color (ornamental plants)
- Improved aroma (vegetables)
- Stronger compact plants
- Reduced growth in height
- No lengthening caused by lack of UV



## Description

The new, high diffuse UV B open film for Summer-cultivation for strawberries and raspberries.

## Performance class

☆☆☆☆

## Area of use

Single film tunnel  
Inner film for double covering

## Colour

Transparent

## Thickness

180  $\mu$  / 200  $\mu$  with Thread

## UV guarantee

4,5 years (Central Europe 90 kLy/year)

## Transparency

Approx. 86 % total

Diffuse light 80 %

## cooling properties

Yes

## Thermicity

> 80 %

## UV-A Permeability

Yes

## UV-B Permeability

Yes > 60 %

## Anti-Condens

No

## Widths

8,00 m / 9,00 m / 11,00 m / 12,50 m / 14,50 m / 15,50 m

Further widths by request

## Length

As required



# Lumisol clear AF

The UV-B permeable film



## Practical use



## Possible advantages

- Light transmission over the whole spectrum
- Less pesticide use
- Improved color (ornamental plants)
- Improved aroma (vegetables)
- Stronger compact plants
- Reduced growth in height
- No lengthening caused by lack of UV

## Description

UV-B permeable greenhouse poly with excellent features regarding translucence and mechanical stress.

## Performance class

☆☆☆☆☆

## Area of use

Single covering  
Inner film for double covering  
Outer film for double covering

## Colour

Transparent

## Thickness

200  $\mu$

## UV guarantee

5 years (Central Europe  
90 kLy/year)

## Transparency

Approx. 88 / 90 % total  
Diffuse light 30 %

## cooling properties

No

## Thermicity

> 80 %

## UV-A Permeability

Yes

## UV-B Permeability

Yes > 70 %

## Anti-Condens

Yes

Better light transmission

Water has to rundown on film

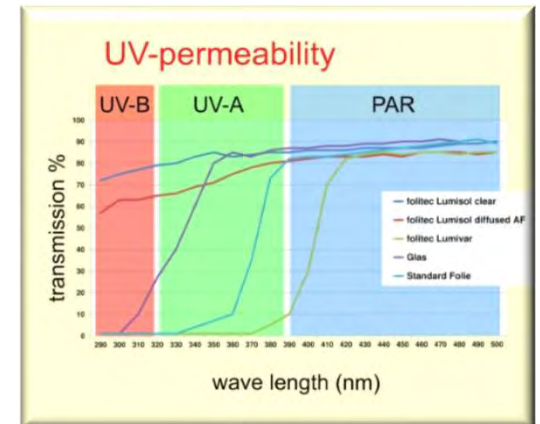
## Widths

4,50 m / 6,00 m / 6,50 m / 7,50 m / 8,00 m / 9,00 m / 10,00 m  
11,00 m / 12,00 m / 12,50 m / 14,30 m / 15,00 m / 16,00 m

## Length

Further widths by request

As required



# Lumisol Diffused AF

The diffuse and UV-B permeable thermic film



## Practical use



## Possible advantages

- Light transmission over the whole spectrum
- Less pesticide use
- Improved color (ornamental plants)
- Improved aroma (vegetables)
- Stronger compact plants
- Reduced growth in height
- No lengthening caused by lack of UV



## Description

### Performance class

This diffused UVB-permeable greenhouse film ensures that the plants obtain all the light they need to grow. Unwanted warmth and burns are reduced considerably. Furthermore, this film has a high level of thermicity in order to minimize loss of heat during the night and in cold weather. Practical trails show increases in crops and a cooler working temperature during harvest time.



### Area of use

### Single covering

### Inner film for double covering with Lumisol clear AF

### Colour

Transparent

### Thickness

200  $\mu$

### UV guarantee

5 years (Central Europe 90 kLy/year)

### Transparency

Approx. 87 % total

Diffuse Light 90%

### cooling properties

Yes

### Thermicity

> 85 %

### UV-A Permeability

Yes

### UV-B Permeability

Yes > 60 %

### Anti-condens

Yes



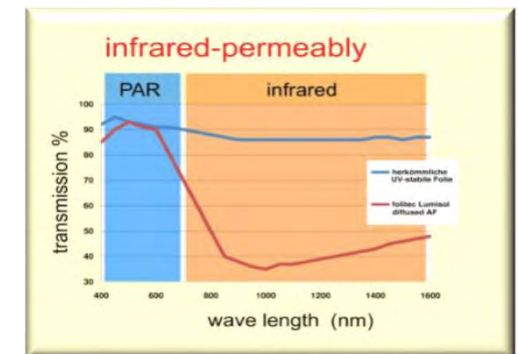
Better light transmission

Water has to rundown on film

6,50 m / 8,00 m / 10,00 m / 12,00 m / 14,50 m / 15,00 m

Further widths by request

As required





# Intelligent UV Open films offer Increased Performance



Since 30 years, folitec is equivalent for expertise in greenhouse film for every agronomical area.

Within the last 30 years, the quality of greenhouse film has developed tremendously, from the groundbreaking innovation of diffused and temperature controlling films up to the development of products which improve growth. In cooperation with world leading experts of the University of Lancaster and Reading, the folitec Lumisol range was developed through constant research on plants, pests and pesticides in reaction to ultra-violet light.

Considerable benefits such as frost protection on the blossom, earliness, rapid fruit sweetness and higher colouring are given with the new UV-open special films. Satisfied customers testify for verifiable increase through early, larger fruit and improved taste. UV-open folitec films work well for earliness in strawberries and diffused films are cooling in summer and year round cultivation. In addition, all our films are 100% recyclable.



With flowers and ornamentals the new poly systems provide for a compact and sturdy growth and brilliant colours. For roses, growers recognized better pigmentation and flower colour, as well as better growth by using the innovative UV-open special films. folitec films have proved excellent quality characteristics in tomato and sweet pepper cultivation.

As a supplier of special film, folitec stands out thanks to the large range of varieties, individual dimensions, high durability, permeability and short term delivery for specialized trade.

Do not make any compromises when choosing greenhouse film. folitec is sure to offer the right film, regardless of the application.



# Tested qualities

## Greenhouse films convincing



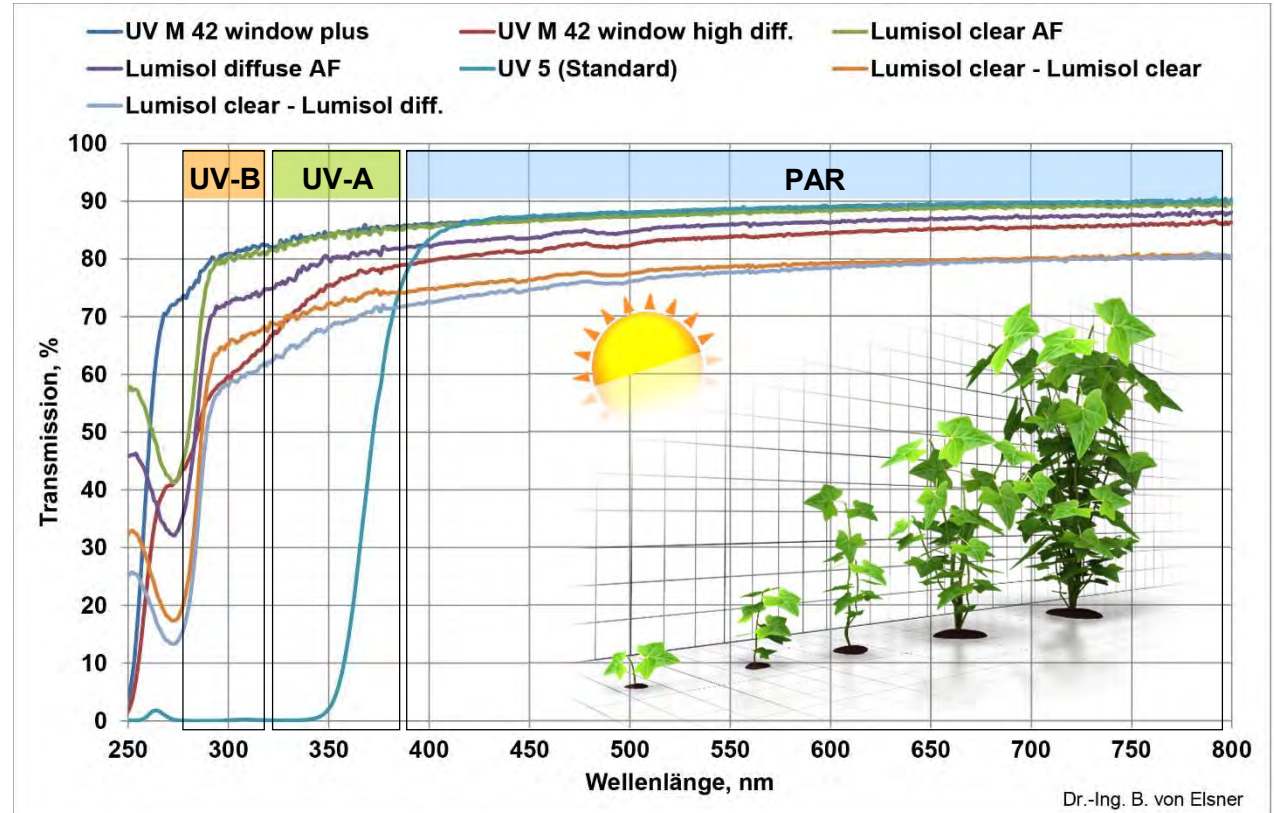
Growers are often faced with the decision of which film to choose for new, or amended agricultural use. In practice it is crucial for the growing crops to receive the full light spectrum, with the benefits received greatly outweighing any unlikely disadvantages.

An increase in yields can be gained through earlier harvests; larger, tastier and sweeter fruits; and compacter plants with more intensive colours. Many expert testers are, in fact, convinced that there are some crops which can only be grown under the new UV B open film.

Young plant growers in particular appreciate the UV B open film, as the crops come into direct contact with the UV light. This hardens them against the UV shock which often occurs when the plants are brought out into the open. In addition to this, the plants themselves grow compacter and stronger.

**All folitec films are tested by an independent and certified specialist laboratory.**

The grower who focuses on success will never compromise and always stay on the safe side when choosing greenhouse, tunnel, and additional film.



# Good to know

## Information and advice on using films



Greenhouse films  
general

Greenhouse films protect a wide variety of crops in front of hail, rain, wind, birds etc. They promote the growth of plants. The complete light spectrum has to reach the cultures. This is responsible for coloration, compact growth, taste.



Global light  
transmission by  
EN 2155

Plants need visible light for photosynthesis. The global light transmission, stated in percent, corresponds to the amount of light, which passes through the film in the visible area. The higher the value, the more light can pass through the film. This is measured at Norm EN 2155.



Thermal films by  
EN 13206

Thermal greenhouse films have the property of keeping the long-wave infrared rays, radiate at night from the ground and cultures, to keep in the greenhouse. Thanks to these characteristics, a greenhouse film at night can keep the heat stored during the day longer and help to increase its precocity. The risk of frost damage can be reduced.



# Good to know

## Information and advice on using films



Diffused films

The characteristic of diffused greenhouse films is to break the sunlight, that passes through the film, to achieve better light scattering in the greenhouse. The risk of burns and shadows is reduced and a uniform coloring of the fruits is promoted.



Clear transparent films

Transparent Greenhouse films have the property, the permeability of the solar radiation used for photosynthesis without improving the scattering effect. Because of this property, a transparent greenhouse film can improve photosynthesis.



Antifog films

Films with antifog have the property of changing the surface tension of the film, so that the water on the film doesn't condense in the form of drops but in the form of a fine water film. Thanks to this property, the anti-defoliants can reduce the risk of dripping and increase the light transmission, because the sunbeams are not broken by the drops of water.



# Simply ask us



**Do not compromise.**  
folitec always has the right film for your application.



**folitec Agrarfolien-Vertriebs GmbH**  
Röntgenstr. 11 | D-56457 Westerburg  
fon: +49 (0) 26 63 / 28 000  
fax: +49 (0) 26 63 / 28 00 10  
email: [vertrieb@folitec.de](mailto:vertrieb@folitec.de)

**[www.folitec.de](http://www.folitec.de)**