

## TECHNICAL PRODUCT INFORMATION

Product:	Diffused thermic anti-drip UV open
Catalog Number:	E1599
Product description:	Diffused stabilized multi-layer greenhouse cover. The film has a wide open window in the UV range permitting a large percentage of the UV solar radiation to enter the greenhouse in order to enhance the color contrast of the roses and to ensure the development the reddish colors in nectarines and peaches. The light diffusion reduces construction and self shadows and allows the plants to receive a more even distribution of light during the day. The anti-fog additives to prevent dripping onto the plants and light transmission reduction (water drops act like a mirror and reflect light). The IR ingredient prevents heat "escape" at night.
Durability:	3 years or 1500 ppm Sulfur
Thickness:	150-200 $\mu$
Width:	1.0-12.0 m
Length:	According to customer order

### Product properties

Property	Test Method	Units	Value
Tensile Strength at break[MD]	ASTM D-882	MPa.	27
Tensile Strength at break[TD]	ASTM D-882	MPa.	27
Elongation at break [MD]	ASTM D-882	%	500 min
Elongation at break [TD]	ASTM D-882	%	500 min
Tear resistance[MD]	ASTM D-1922	Kg./mm	10
Tear resistance[TD]	ASTM D-1922	Kg./mm	10
Falling Dart Impact (200 microns)	ASTM D-1709	gr.	1200
Total light transmission	EN13206	%	85
Light diffusion	EN13206	%	65
Thermicity	EN13206	%	80
UV light transmission (320-400nm)	EN13206	%/nm	80%
UV light transmission (250-320nm)	EN13206	%/nm	50%
Thickness average	EN13206	%	$\pm 5\%$ on nominal
Thickness tolerance	EN13206	%	$\pm 15\%$

## **Use and limitation:**

- **Exposure to chemicals:** exposure of greenhouse films to severe chemical conditions has an adverse effect on the lifetime of the film. Avoid excessive use of agrochemicals such as pesticides, herbicides, fungicides and fertilizers. Take measures to prevent direct contact of chemicals to the film. Ensure that metal structures are galvanized and are free from corrosion. When wooden structure parts are used, avoid contact of the film with resin, oil, petroleum or volatile preservatives. Prevent contact of the film with PVC accessories. Chemicals containing halogens, sulfur, copper, iron, are known to accelerate the degradation of greenhouse films.

**Specifically, if the following elements are found at levels higher than specified, the films are excluded from this warranty:**

<b><u>First season</u></b>	<b>: Sulfur: 500ppm, Chlorine: 70ppm</b>
<b><u>Second year</u></b>	<b>: Sulfur: 1000ppm, Chlorine: 100ppm.</b>
<b><u>Third year</u></b>	<b>: Sulfur: 1500ppm, Chlorine: 150ppm</b>
<b>Iron: 50 ppm.</b>	

- **Overheating** the film has an adverse effect on it's lifetime. Hot air should be directed away from the film.
- When gases are used to disinfect the soil, the treated soil must be covered with a film for a minimum of three weeks. After the film is removed, the greenhouse should be ventilated.