TECHNICAL PRODUCT INFORMATION

Product:	Diffused thermic stabilized film UV open
Catalog Number:	E2178
Product description:	Multi-layer diffused PE film. The light diffusion allows the plants to receive a more even distribution of light during the day and the thermic (IR) ingredients reduce the heat loss at night. The film has a wide-open window in the UV range permitting a large percentage of the UV solar radiation to enter the greenhouse.
UV Resistance:	3 years at 160-180Kly, 4 years at 140 KLy
Thickness:	180-300 µ
Width:	Up to 18.0 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	%	650min
Elongation at break [TD]	ASTM D-882	%	650 min
Tear resistance [MD]	ASTM D-1922	Kg./mm	8.0
Tear resistance [TD]	ASTM D-1922	Kg./mm	11.0
Falling Dart Impact (200µ)	ASTM D-1709	gr.	1200
Total light transmission	EN13206	%	85
Light diffusion	EN13206	%	65
Thermicity	EN13206	%	85
UV light transmission at 320-380nm	Internal	%	60%
Thickness average tolerance	EN13206	%	±5% on nominal

All statements, information and data given herein are believed to be accurate a reliable, but are presented without guaranty and warranty or responsibility any kind, express or limited. Statement or suggestion concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommendation to infringe any patent. The user should not assume that all safety measures are indicated, or that other measures may not be required

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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:

  First season : Sulfur: 1000ppm, Chlorine: 100ppm
  Second year : Sulfur: 2000ppm, Chlorine: 150ppm.
  Third year : Sulfur: 3000ppm, Chlorine: 200ppm
  Iron: 50 ppm

- **Overheating**: the film has an adverse effect on its lifetime. Hot air should be directed away from the film.

- **Disinfection chemical use**: when chemicals 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.

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