

TECHNICAL PRODUCT INFORMATION

Product:	Thermic Diamond 15 + Anti-dust
Catalog Number:	E1892
Product description:	High strength, high light transmission , multi-layer diffused PE film. The light diffusion reduces construction and self shadows and allows the plants to receive a more even distribution of light during the day and the IR ingredients prevent heat escape at night . The film has Anti-dust properties.
Expected lifetime.:	3 years at 160-180 Kly, 4 years at 120 Kly
Thickness:	150-200 μ
Width:	Up to 18.0m
Length:	According to customer order

Product properties

Property	Test Method	Units	Value
Tensile Strength at break[MD]	ASTM D-882	MPa.	26
Tensile Strength at break[TD]	ASTM D-882	MPa.	27
Elongation at break [MD]	ASTM D-882	MPa.	500 min
Elongation at break [TD]	ASTM D-882	MPa.	500 min
Tear resistance[MD]	ASTM D-1922	Kg./mm	8.0
Tear resistance[TD]	ASTM D-1922	Kg./mm	11.0
Falling Dart Impact (200 μ)	ASTM D-1709	gr.	850
Total light transmission	EN2155 (400-700nm)	%	90
Light diffusion	EN2155 (400-700nm)	%	53
Thermicity	EN 13206	%	85
UV blocking at 320-380 nm	Internal	%	87
Thickness average	EN 13206	%	$\pm 5\%$ on nominal
Thickness tolerance	EN 13206	%	$\pm 15\%$

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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:

Sulfur: max 500 ppm, Chlorine: 50 ppm, 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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