

TECHNICAL PRODUCT INFORMATION

Product:	Diamond 15 technology-based film Anti-drip anti-dust
Catalog Number:	E2351
Product description:	Multi-layer greenhouse cover film. The film based on Diamond 15 Technology which combine high diffusion with high light transmission at the visible light. The film has high thermic property to reduce heat loss during the cold nights and anti-drip additives to prevent dripping on the crops.
Durability:	3 years at 160-180 Kly,
Thickness:	150-200 μ
Width:	Up to 18.0 m
Length:	According to customer order

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	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.	1200
Total light transmission	EN 13206	%	89
Light diffusion	EN 13206	%	55
Thermicity	EN 13206	%	85
UV blocking	EN 13206	%/nm	97/350
Thickness average tolerance	EN 13206	%	$\pm 5\%$ on nominal

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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:

<u>First Yera</u>	: Sulfur: 800ppm, Chlorine: 100ppm
<u>Second year</u>	: Sulfur: 1500ppm, Chlorine: 150ppm.
<u>Third year</u>	: Sulfur: 2000ppm, 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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