TECHNICAL PRODUCT INFORMATION

Product:	Thermic Diamond 15
Catalog Number:	E2328
Product description:	Multi-layer Dimond 15 film. The film combines high light diffusion with very wide diffusion angle and high light transmission. The light diffusion allows the plants to receive a more even distribution of light during the day and the IR ingredients reduce heat loss at night.
UV resistance:	3 years at 160-180 Kly
Thickness:	150-200 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	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	%	58
Thermicity	EN 13206	%	85
UV blocking 320-380 nm	Internal	%	90
Thickness average tolerance	EN 13206	%	±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:

  Sulfur: max 1000 ppm, Chlorine: 100 ppm, Iron: 50 ppm

- Overheating the film has an adverse effect on its 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.

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