# TECHNICAL PRODUCT INFORMATION

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| Product: | Diffused film |
| Catalog Number: | E1848 |
| Product description: | Diffused multilayer greenhouses cover. The film contains light diffusers to allow the plants to receive a more even distribution of light during the day |
| Expected lifetime: | 3 Years at 160-180 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 | % | 550 min |
| Elongation at break [TD] | ASTM D-882 | % | 550 min |
| Tear resistance [MD] | ASTM D-1922 | Kg./mm | 9.0 |
| Tear resistance [TD] | ASTM D-1922 | Kg./mm | 10.0 |
| Falling Dart Impact (200µ) | ASTM D-1709 | gr. | 1200 |
| Total light transmission at 400-700 nm | EN 13206 | % | 85 |
| Light diffusion at 400-700 nm | EN 13206 | % | 65 |
| Thermicity | EN 13206 | % | NA |
| UV irradiation transmission at 320-380 | Internal | % | 25 |
| Thickness average tolerance | EN 13206 | % | ±5% on nominal |

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patent. The user should not assume that all safety measures are indicated, or that other measures may not be requi

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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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