# TECHNICAL PRODUCT INFORMATION

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| Product: | Smart Aluminum film, 20% shade + **Anti-dust** |
| Catalog Number: | E1875 |
| Product description: | Multi-layer greenhouse cover with special Aluminum pigments. The pigment reflects the far infra-red radiation during the day, by reducing the temperature inside the greenhouse. At night, the Aluminum pigments block the IR radiation keeping the greenhouse temperature higher that outside temperature. **The film has Anti-dust properties**. |
| 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(200µ) | ASTM D-1709 | gr. | 1200 |
| Total light transmission | EN 13206 | % | 72-75 |
| Shade percentage | Internal | % | 20 |
| Total light diffusion | EN 13206 | % | 55 |
| Thermicity | EN 13206 | % | 70 |
| UV blocking (320-380 nm) | Internal | % | 92 |
| Thickness average tolerance | EN 13206 | % | ±5% on nominal |

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P.O. Box 3, Kibutz Einat 4880500 Israel
politiv@politiv.co.il
+972-3-9016060
+972-3-9016040
www.politiv.co.il

# 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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