



## TECHNICAL PRODUCT INFORMATION

Product:	Black/White film.
Catalog Number:	E1909
Product description:	Multi layer film. The inside layer is black and the outer layer is white. The black pigment absorbs the light in the UV and visible light and the white layer reflect the light preventing over heating beneath.
UV Resistance	3-4 Years at 120 Kly
Thickness:	150-300 $\mu$
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.	25 min
Tensile Strength at break [TD]	ASTM D-882	MPa.	25 min
Elongation at break [MD]	ASTM D-882	%	500 min
Elongation at break [TD]	ASTM D-882	%	500 min
Falling Dart Impact	ASTM D-1709	gr.	800
Total light transmission	EN 2155	%	Max 1%
Thickness average	EN 13206	%	$\pm 5\%$ on nominal
Thickness tolerance	EN13206	%	$\pm 15\%$

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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.