



TECHNICAL PRODUCT INFORMATION

Product:	Black/White Film
Product Number:	E1909
Product Description:	Multi-layer film. The inside is black and the outer layer is white. The black pigment absorbs the light in the UV and invisible light The white layer reflects the light preventing over heating beneath.
UV Resistance:	3-4 years at 120 Kly
Thickness:	150-300 μ
Width:	Up to 59' ft (18.0 m)
Length:	According to customers 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	1800
Total Light Transmission	EN 2155	%	Max 1%
Thickness Average	EN 13206	%	+/- 5 on Nomial
Thickness Tolerance	EN 13206	%	+/- 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 the film.

Specifically, if the following elements are found at levels higher than

Specific, the film 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 or tunnel should be ventilated.

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