



TECHNICAL PRODUCT INFORMATION

Product:	Black Mulch Film (Embossed)
Product Description:	TIF or Non-TIF. Film blocks sunlight to suppress weed growth while supporting retain soil moisture and stabilize soil temperature. Embossed material to increase flexibility and tear resistance.
UV Stabilized:	10-12 months
Thickness:	25-50 µm (1.0-2.0 mil)
Width:	Up to 7.8' ft (2.4 m)
Length:	According to customers order

Product Properties

Property	Test Method	Units	Value
Tensile Strength at Break [MD]	ASTM D-882	MPa.	24
Tensile Strength at Break [TD]	ASTM D-882	MPa.	25
Elongation at Break [MD]	ASTM D-882	%	400
Elongation at Break [TD]	ASTM D-882	%	450
Tear Resistance [MD]	ASTM D-1922	gr./mm	6,000
Tear Resistance [TD]	ASTM D-1922	gr./mm	10,000
Falling Dart Impact	ASTM D-1709	gr	350
Total Light Transmission	ASTM D-1003	%	50
Shade	ASTM D-1003	%	50

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USE AND LIMITATION

- **Chemicals Exposure and Compatibility:**

TIF (Totally Impermeable Film) embossed black mulch film is engineered to provide enhanced resistance to commonly used agricultural fumigants, fertilizers, and crop protection solutions when applied in accordance with established agricultural guidelines. The high barrier structure of TIF films supports effective soil sealing during fumigation and standard crop protection cycle.

NON-TIF (Conventional Non Totally Impermeable Film) embossed black mulch film is intended for conventional mulch application where enhanced fumigant containment is not required. It is compatible with standard fertilizer programs and crop protection products applied through drip irrigation or conventional agricultural practices.

For both TIF and NON-TIF films, exposure to excessive chemical concentration, improper application rates, incompatible chemical mixtures, or prolonged direct contact with highly concentrated agrochemicals may adversely affect firm performance and service life.

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 film, effective disinfection occurs within minutes, followed by natural drying; prolonged exposure or chemicals disinfecting practices is excluded from warranty.

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