

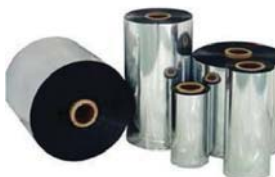
**IMAFLEX** INC.

## ADVANCED AGRICULTURAL FILMS



**GROW MORE  
WITH LESS:**

- Plastic
- Pesticides
- Money



# Agricultural Films

**IMAFLEX** INC.

## About Imaflex

Imaflex Inc. through its Canslit division and its subsidiary, Imaflex USA Inc. is a leading manufacturer of high quality agricultural films used in the horticultural food production in North America. Our advanced mulch films are recognized as premium products within the industry.

## Sustainable Farming Alliance

At Imaflex Inc., we constantly strive to create films specifically designed to help growers to increase their crop yields while lowering their costs. It is the reason why we develop and offer advanced film solutions. Films that can be utilized for greater cost effectiveness by reducing the amount of plastic mulch per acre need, without compromising strength, longevity, and specific buffer zone credit needs. To underscore our commitment to sustainable agriculture, we recently added compostable and crop protection products releasing mulch films to our product family.

## Our Agricultural Films

**CANSLIT**

Division de Imaflex Inc. / Division of Imaflex



**IMAFLEX** INC.



**IMAFLEX** USA INC.  
SUBSIDIARY OF IMAFLEX INC.

1200, Unity Street, Thomasville, NC 27360 USA

- |                 |  |
|-----------------|--|
| - CAN-GROW      | - Thin Mulch and Solarization Films                          |
| - CAN-ECO       | - Compostable Mulch Films                                    |
| - CAN-SHINE     | - Metalized Insect Repellent Mulches                         |
| - CAN-BLOCK     | - Fumigation Barrier Films (TIF)                             |
| - SHINE N' RIPE | - Metalized Insect Repellent Fumigation Barrier Films        |
| - ADVASEAL      | - Herbicide Delivering Mulches and Barrier Films (Pesticide) |

Our mulches represent the future: thinner and stronger, durable, environmentally-friendly and economic, as well as an optional supplemental tool for integrated pest control. Their performance have been scientifically proven and certified by environmental regulatory authorities.



# Agricultural Films

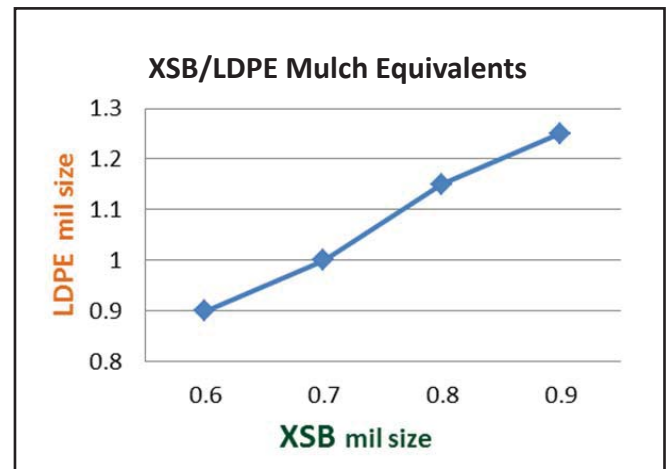
**IMAFLEX** USA INC.

## CAN-GROW XSB – Mulch Films

These are heavy duty, thin gauged and embossed mulches for raised bed fruit and vegetable production. They are made from our **eXtra Strong Blend (XSB)** material that possesses a higher crystallinity and makes our mulches very strong and durable on the field. **CAN-GROW XSB** provides all known benefits of plastic mulching including: better weed control, increased and earlier harvests, higher quality produce, and more efficient use of irrigation water to name a few.

### Features:

- 30% thinner and lighter, yet as strong as thicker LDPE mulches
- Available from 0.6 mil in common widths and colors
- Excellent puncture and tear resistance
- Textured for tight bed fit
- Season long weather protection package
- Easy application and removal



### Benefits:

- 30% less plastic consumption for covering an acre compared to industry standard LDPE mulches
- Thinner clear mulches allow for better soil heating for solarization
- Maximum footage per roll to reduce downtime and costs of high-speed layers
- Reduce mulch purchase and disposal costs

### Highlighted Specialty Products:

- Clear, smooth textured solarization films for pre-plant soil sanitation without fumigants





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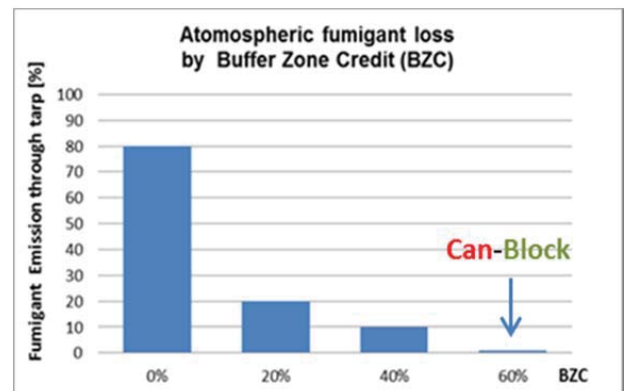
**IMAFLEX** USA INC.

## CAN-BLOCK XSB v-TIF – Fumigation Barrier Films

These are unique thin gauged barrier mulches made with eXtra Strong Blend (XSB) material for pre-plant soil fumigation in fruit and vegetable production. These films are formulated to mitigate the evaporation of fumigants into the atmosphere and qualify as total impermeable film (TIF) according to the US-EPA standards. **CAN-BLOCK XSB v-TIF** allows reduction of fumigant rates which saves money and helps maintain effective pest control.

### Features:

- Qualified for highest **Buffer Zone Credits (BZC)**, please visit [www.epa.gov/soil-fumigants/tarps](http://www.epa.gov/soil-fumigants/tarps)
- 30% thinner and lighter than other TIF mulches
- Available from 0.8 mil in common widths & colors
- Excellent puncture and tear resistance
- Textured for tight bed fit
- Season long weather protection package
- Easy application and removal



### Benefits:

- Thinnest gauge mulch qualified yet by US-EPA for 60% BZC for PIC, 1,3-D, PicChlor 60, Telone® C35, InLine® and the use with PALADIN® in all States .
- Listed by the California Department of Pesticide Regulation (CDPR) for a 60% buffer zone reduction for chloropicrin field fumigations in all colors, please visit: [http://www.cdpr.ca.gov/docs/emon/pubs/tac/dpr\\_tarp\\_list.pdf](http://www.cdpr.ca.gov/docs/emon/pubs/tac/dpr_tarp_list.pdf)
- Works with lower fumigant rates and costs for effective pest control.
- Provides additional savings on mulch purchase, layability, removal and disposal.



# Agricultural Films

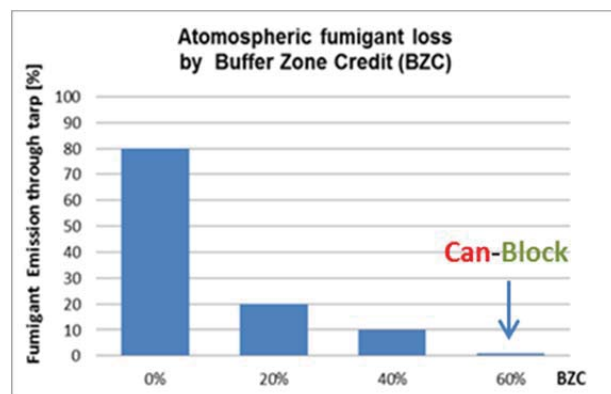
**IMAFLEX** USA INC.

## CAN-BLOCK EVOH TIF – Fumigation & Odor Barrier Films

These are special barrier mulches for pre-plant soil fumigation in fruit and vegetable production, which are highly impermeable to DMDS containing fumigants like PALADIN®. These films are formulated to mitigate the evaporation of fumigants into the atmosphere and provide an extra barrier to nuisance odors by DMDS containing fumigants. CAN-BLOCK EVOH TIF allows for reduction of fumigant rates, effective pest control, and cost savings.

### Features:

- Qualified for highest **Buffer Zone Credits (BZC)**, please visit [www.epa.gov/soil-fumigants/tarps](http://www.epa.gov/soil-fumigants/tarps)
- Available from 1 mil in common widths & colors
- Excellent puncture and tear resistance
- Smooth textures for optimal odor retention
- Season long weather protection package
- Easy application and removal



### Benefits:

- Qualified by US-EPA for 60% BZC for PIC, 1,3-D, PicChlor 60, Telone® C35, InLine® and the use with PALADIN®
- Allows for lower fumigant rates and costs for effective pest control.
- Provides additional savings on mulch purchase, layability, removal and disposal.
- Complies with Florida regulation that all high barrier films used with DMDS fumigants are required to contain a layer of Ethylene Vinyl Alcohol (EVOH).



# Agricultural Films

## **IMAFLEX** INC.

### CAN-SHINE & SHINE N' RIPE - for Insect Repellency and Growth Management

High-reflective metalized **CAN-SHINE** mulches and **SHINE N' RIPE** fumigation films offer additional insect and disease control in conventional and organic horticultural production.

Solar UV-light reflected by the mulch's metallic-mirror aluminum surface impairs pest's senses of orientation and host finding, consequently **preventing feeding and disease transmission**. It is scientifically proven that metalized mulches are more effective in sap-sucking insect control and are safer for beneficial insects, like honey bees, compared to neonicotinoid insecticides.

Solar visible (PAR) and heat (IR) radiation reflected from the metalized mulch **stimulates growth and promotes earlier and higher yields**, while reducing plant temperature stress.

#### Features:

- Reflects  $\geq 90\%$  of solar UV, Photo-synthetically Active (PAR) & Heat (IR) radiation up to 9 mos.
- Fully metalized films reduce root zone temp. by  $10^{\circ}\text{F}$  and plant ambient temp. by  $40^{\circ}\text{F}$ .
- Metalized films with black center or shoulder strips can mitigate seasonal temperature stress.
- Available in thicknesses  $\geq 1$  mil and in 0.8 mil as embossed total impermeable film (TIF) for (bio)fumigant retention in extra strong quality.



#### Benefits

- Purely physical control of sap-sucking pests: e.g. Aphids, Thrips, Whiteflies & Leafhoppers
- Eliminates early season viral & bacterial infestation and delays the onset of later season infestation with lower insecticide use and costs
- "Repels" pests, but attracts beneficial insects like honey bees or predatory wasps!
- Provides higher light intensity (photon flux density) in shade to accelerate plant growth
- **Verified higher, earlier yields in Strawberry and Pepper in Field Trials by UFL**





# Agricultural Films

## IMAFLEX INC.

### Shine N' Ripe XL® - The Original MRM for Citrus

Shine N' Ripe XL® is a heavy-duty **Metalized high-Reflective Crop Protection Mulch (MRM)** developed in cooperation with the University of Florida and growers especially for multi-year citrus greening control.

Proven over 6 years and on 25,000 acres to **protect young citrus trees from Asian Citrus Psyllids, reducing HLB infestation and accelerating growth, fruit bearing and early harvest yields.**

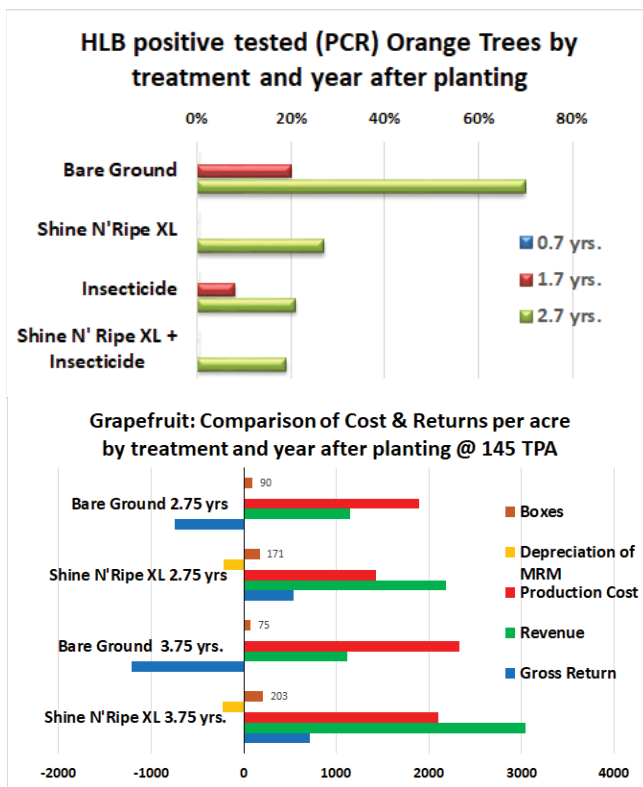
Shine N' Ripe XL® **non-chemical crop protection** is based on the unique ability of its aluminum mirror layer to reflect incident sunlight almost completely unlike soil or other mulches.

#### Features:

- 3 mil film with proven weather stability for walk-on-stability of at least 5 years.
- Min. 85 % reflectivity of solar UV, visible & IR radiation for effective pest and growth control
- Advanced anti-corrosion coating protects the high-reflective mirror layer for min. 3 years.
- Available metalized on black from 72"- 80" and 96" to keep growing trees inside the safe area
- Min. 25% reduced water consumption and nutrient wash out from the soil; min. 75 % weed suppression in rows compare to non-mulched growing practice.

#### Benefits:

- Immediate protection at planting from sap-sucking, disease-transmitting insects!
- Chemical-free, more efficient than neonicotinoids and safer for beneficial insects!
- More efficient use of water, fertilizer, less use of herbicides and systemic insecticides!
- 2 years earlier "first" harvests and up to 90 % higher yields of premium fruit quality.
- **Payback starts 2 years earlier compared to non-mulched new groves despite the additional investment required for MRM application!**





# Agricultural Films

**IMAFLEX** INC

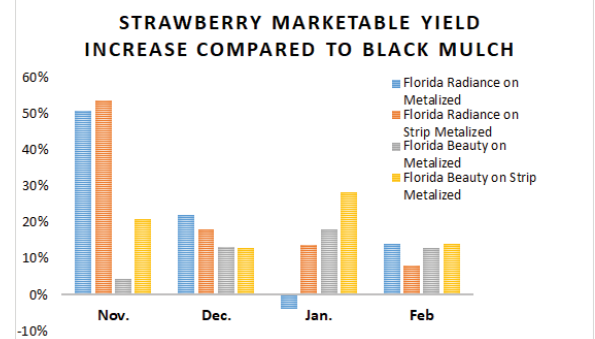
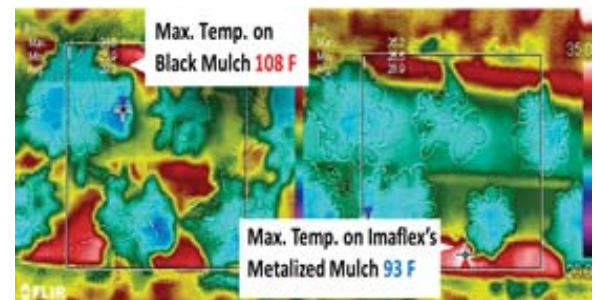
## Metalized CAN-BLOCK XSB v-TIF – Solar Reflective & Total Impermeable

Specially designed thin gauged, embossed metalized films combining highest fumigation retention of our **CAN-BLOCK XSB v-TIF** with the physical insect and disease control of our **CAN-SHINE** and **SHINE N' RIPE** metalized films.

Metalized **CAN-BLOCK XSB v-TIF** are available fully metalized or with a metalized center strip flanked on both sides by black plastic to cool the root zone (Cool Trap) in early fall, while warming the bed in winter (Heat Trap) to increase early and seasonal yields.

### Features:

- Qualified for 60% Buffer Zone Credits as TIF by US-EPA, CDPR and FDACS for many fumigants
- Strip metalized films reduce root zone temp. by 10°F and plant ambient temp. by 15°F.
- Available in 0.8 mil metalized black
- Embossing reduce "glare chill" inspite of greater 90% of solar raditaion reflection



### Benefits:

- Increased early and seasonal marketable yields were verified in consecutive trials with different strawberry cultivars by UFL-GREC (Prof. Agehara).
- Provides statistically the same marketable pepper yields in UFL-SWFREC trials like the grower standard even without any insecticide use for thrips and mites control (Prof. Stanley)
- Priced comparably to our thicker standard metalized mulch films





# Herbicial Agricultural Films

**IMAFLEX INC.**

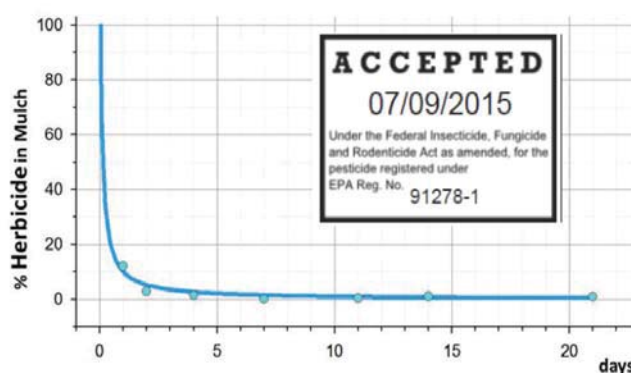
## ADVASEAL HSM – Nutsedge controlling Films

These are herbicide releasing mulches providing highly efficacious control of broadleaves and sedges, simple application features and exceptional user safety. **ADVASEAL HSM** delivers the herbicide, **HaloSulfuron-Methyl (HSM)**, in a controlled manner for an efficient nutsedge control pre-plant in asparagus, cucumber, cantaloupe, melon, pumpkin, squash and tomato production. **ADVASEAL HSM** is registered as herbicide by US-EPA and considered to be the first representative of a line of revolutionary crop protection mulches capable to substitute fumigants in pre-plant soil sanitation in the future.

### Features:

- Available in thicknesses, widths, and colors in compliance with label
- Safe to handle, also in transport & storage
- Easy application; herbicide release starts only after the film is applied on moist soil
- Complete herbicide release within 7 days
- Puncture, tear resistant and durable
- Removal /disposal same as regular mulches

**Herbicide Release from Advaseal HSM  
after application on soil over time**



### Benefits (verified in Field Trials):

- Crops grown with ADVASEAL HSM are significantly larger in diameter
- Result in more and heavier harvested fruits (melons)
- Designed for reduction of fumigant rates for nutsedge control, earlier transplanting and higher crop yields.
- Eliminates working steps/costs associated with the preparation and application of herbicide spray mixtures

**NOTE: The ADVASEAL HSM label is your guide for safe and effective use and should be read and understand before application of ADVASEAL HSM**



## Can-Eco® – Soil Biodegradable Mulch with optional Pest & Growth Control

Mulches are made from bio-based and petrochemical based plastic materials, which are **certified compostable** according to ASTM D6400 and other international standards.

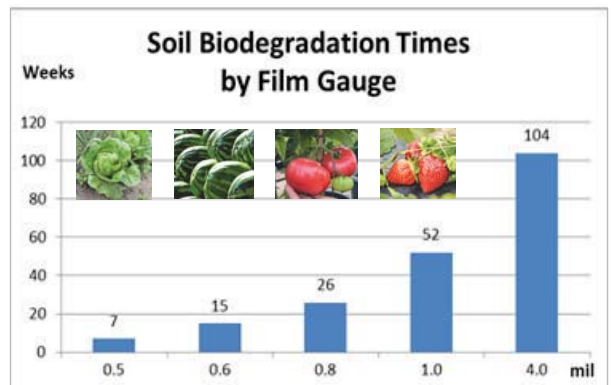
Can-Eco® mulches have additionally demonstrated their ability to be **completely biodegradable** by natural soil microorganisms **once disked and plowed in the ground**.

Available in various thicknesses to **provide mulching benefits for growing seasons of varying lengths** of 8 to 104 weeks; with an optional high-reflective metallic surface for integrated physical pest control and growth enhancement with solar radiation.

### Features:

- Biodegrades faster in oxygen-rich compost than in soil and the quicker the thinner the film thickness, like any organic matter.
- Mulches of  $\leq 0.8$  mil biodegrade in moderate climates within  $\leq 180$  days after disking and plowing in soil.
- Mulches are available in black in 0.6 - 2 mil; optional with metallic aluminum coating with  $\geq 90\%$  solar UV, PAR & IR radiation reflectivity for crop protection.
- Film biodegrades into carbon dioxide, water, biomass and the metallic coating into aluminum minerals, which are naturally abundant in the soil.

Can-Eco Composting times at 1 mil Gauge



### Benefits:

- Saves film removal and waste disposal costs compared to traditional mulches.
- Provides same mulching benefits as standard mulch and with optional metallic coating chemical-free insect control and growth acceleration like our other metalized mulches
- Does not contain hazardous additives and leaves no non-degradable, invisible plastic film fragments behind like "photo- or oxo-biodegradable" mulches.



# Agricultural Films

**IMAFLEX** INC.

## Common Film Dimensions and Colors:

- **Thickness:** Extend from 0.6 to 1.25 mil, others available on request. Mulch and Barrier films in  $\leq 0.9$  mil exclusively in eXtra Strong Blend quality to ensure optimal performance
- **Widths:** 48, 52, 54, 58, 60, 62, 66, 72 and 84 inches, intermediate sizes on request
- **Roll Lengths:** 2400, 3600, 4000, 6000, 7200, or 8000 feet depending on thickness and width provided the outer roll diameter does not exceed 10.5 inches to fit common mulch layers and the roll weight does not exceed 125 pounds for operator's safety and health.
- **Colors:** Clear, Black, White on Black, Silver on Black and Metallic on Black or White.

## Surface finishing:

An embossed finishing is available for all our agricultural films. Solarization films, EVOH barrier films, and metalized insect repellent films are available also non-embossed.



## Committed to Excellence:

IMAFLEX agricultural films are produced to accepted standard industry yields, based on 30,000 in<sup>2</sup> per pound at 1 mil and a gauge standard industry tolerance of +/- 5%.

IMAFLEX assures that all agricultural film production complies with the requirements set forth in its ISO 9001 certification.

All agricultural films conform to IMAFLEX's specifications at the time of shipment, which are based on technical standards developed by American Society for Testing and Materials (ASTM).



**IMAFLEX** INC.

## ADVANCED AGRICULTURAL FILMS



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