33 YEARS OF ADDING GOOD

HOW ALOK ADDS GOOD TO EVERY MULCH FILM

A mulch film's color and performance come from its masterbatch. ALOK supplies both the color and the additives film makers need, in one partnership.

COLOR AND FUNCTIONAL MASTERBATCHES

BLACK ●
Full light blocking for weed control; the base layer of black/white, silver/black and zebra films.

WHITE ○
High reflectance for cooler soil in black/white films.

SILVER ●
A reflective, insect-repelling top surface.

COLOR ●●●
Red, blue and yellow: far-red reflection for earlier harvests, crop-specific yields and insect trap crops.

ADDITIVE MASTERBATCHES

PPA (PROCESSING AID)
Smoother extrusion with less melt fracture and die build-up; consistent thin gauges at high output.

SLIP / ANTI-BLOCK
Layers don't stick on the roll, so the film unrolls easily on the mulch-laying machine.

UV STABILISER
UvNox keeps the film strong for the full crop season under strong sun, and resists pesticides.

ANTI-RODENT
Discourages rats and other rodents from chewing the film and drip lines.

TYPICAL MASTERBATCH PACKAGE BY FILM TYPE

Film type	Black	White	Silver	Color	PPA	Slip / Anti-block	UV	Anti Rodent
Black	●				●	●	●	○
White / black	●	●			●	●	●	○
Silver / black	●		●		●	●	●	○
Zebra (clear + black)	●				●	●	●	○
Red / yellow / blue				●	●	●	●	○
Clear					●	●	●	○

● Recommended ○ Optional, where rodents are a risk. Final selection depends on film structure, thickness and field life.

Let's work together to make better mulch films.

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BRONZE | Top 35% ecovadis Sustainability Rating SEP 2026

Typical field results. Actual results vary by crop, season and region.

Co-created at ATIC

ALOK



Better mulch films. Better harvests.

Masterbatches and additives for every mulch film: black, clear, silver and colored.

Mulch film is one of the simplest ways a farmer can grow more. **Its color and additives decide how it handles sunlight**, and that decides what it does for the crop: stop weeds, warm or cool the soil, keep fruit clean, keep insects away, push yields higher.

Saves water
Less evaporation from the soil

Controls weeds
Without herbicides

Manages soil heat
Warmer in winter, cooler in summer

Controls weeds
Without herbicides

Typical field results. Actual results vary by crop, season and region.

MULCH FILM TYPES

SIX FILMS, SIX JOBS

Every mulch film does one of three things with sunlight. Choosing the right one for the crop and the season is the first secret of a successful farmer.

Block light: no weeds

Let it through: warmer soil

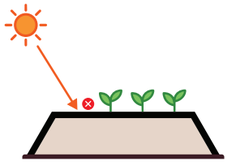
Reflect it: cooler soil, more light to plants

BLACK MULCH

Blocks all sunlight from reaching the soil.

- Stops weeds without herbicides
- Saves water; warms the soil by contact

Best for: Vegetables, year-round weed control



CLEAR MULCH

Lets sunlight through and traps heat under the film.

- The warmest soil, for early and winter crops
- Summer solarization cleans the soil – no chemicals

Best for: Cool seasons; soil disinfection

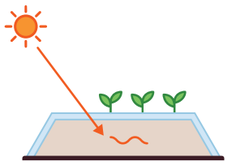
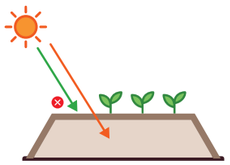


PHOTO-SELECTIVE MULCH

Blocks the light weeds need, lets the heat through.

- Weed control and soil warming in one film
- Green to brown shades

Best for: Winter crops that need warmth

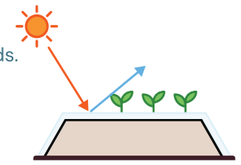


BLACK / WHITE MULCH

White side up reflects light; black side down stops weeds.

- Keeps soil 6–8 °C cooler in hot weather
- Sends ~60% of light back to the plants

Best for: Summer planting, greenhouses

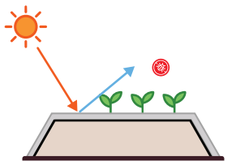


SILVER / BLACK MULCH

Silver side reflects light; black side blocks weeds.

- Repels insects, prevents overheating
- Cleaner fruit with better color

Best for: Strawberries, vegetables, orchards

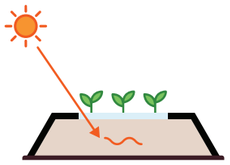


ZEBRA MULCH

Clear centre over the bed, black over the shoulders.

- A warm bed with weed-free shoulders
- Popular with strawberry growers

Best for: Raised beds; avoid very hot spells





Typical field results. Actual results vary by crop, season and region.

COLORED MULCH

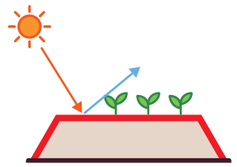
COLOR IS A CROP TOOL

Plants respond to the light reflected up from the film beneath them. Change the color, and you change how the crop grows, ripens and resists pests.

RED MULCH

Reflects far-red light, which pushes plants to grow more shoot and fruit.

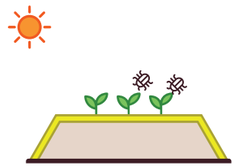
- Bigger, earlier tomato harvests
- Better yield and quality in tomato, melon and zucchini
- Can reduce early blight



YELLOW MULCH

Attracts insects such as aphids, whiteflies and cucumber beetles.

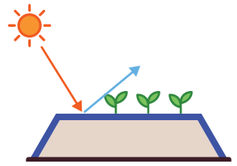
- Used for 'catch crops' that pull pests away from the main crop
- Less pest pressure on high-value crops



BLUE MULCH

Reflects a light pattern that some crops respond to strongly.

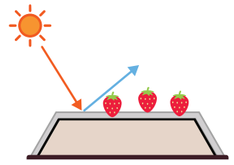
- Higher yields in zucchini and honeydew
- Squash: up to 14% more yield



QUICK SELECTOR BY GROWER'S GOAL

Start with what the crop needs. The film follows.

Stop weeds	● Black
Warm soil in winter	○ Clear or ● photo-selective
Clean soil without chemicals	○ Clear (summer solarization)
Cool soil in summer	● Black / ○ white
Fruit color, fewer insects	○ Silver / ● black
Earlier, bigger tomatoes	● Red
Trap insect pests	● Yellow
Warm bed, weed-free shoulders	○ Zebra



Silver / black mulch in strawberries: fruit stays off the soil, so it stays clean and develops better color.

ALOK TECHNOLOGY INCUBATION CENTRE

Typical field results. Actual results vary by crop, season and region.