

Integrated Pest Management (IPM) Materials

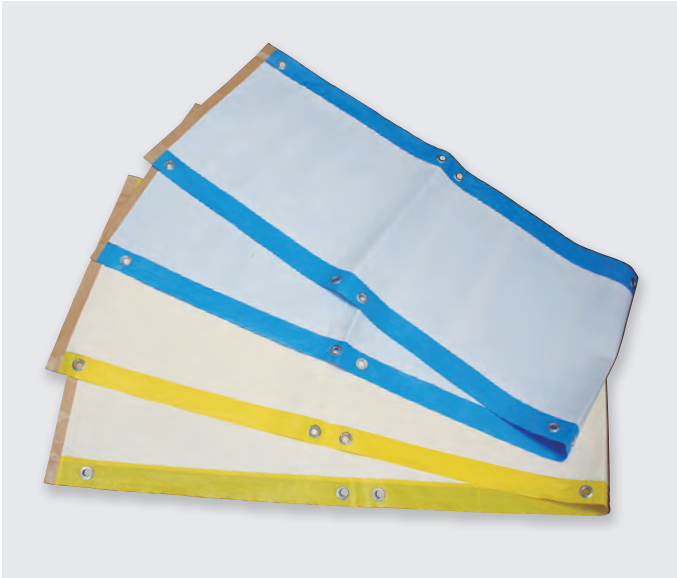
Woven Fabric Sheet with Adhesive

Contrast of light and shade due to irregular translucency of the warp and weft threads of the fabric

×

Three-dimensional contrast created by the uneven surface structure peculiar to the textile

Powerful Attraction Effect



Translucency and surface unevenness of the sheet

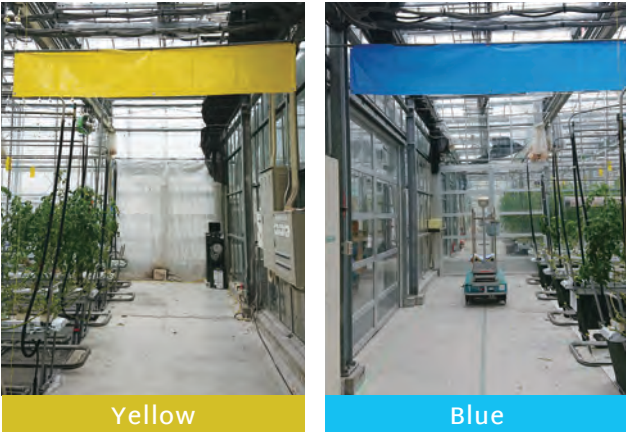
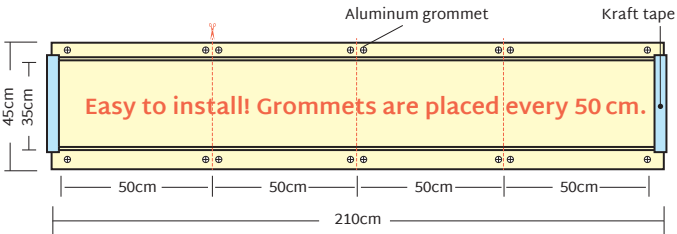
Yellow

Close-up view

Blue

Close-up view

When the sheets are placed on paper with printed text, the text remains visible due to the translucency of the sheets



- | | | | |
|-----------------|----------------|-----------------|---------------|
| - Leafminers | - Stable flies | - Flower thrips | - Fruit flies |
| - Thrips palmi | - House flies | - Thrips palmi | |
| - Thrips tabaci | - Fruit flies | - Thrips tabaci | |
| - Planthoppers | | - Stable flies | |
| - Whiteflies | etc. | - House flies | etc. |



The values in the test data are measured values, not guaranteed values.
Please feel free to contact us. We'll be happy to answer your questions.

KOIZUMISEIMA Since 1890

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<https://koizumiseima.com>



Official Website



Official Youtube Playlist



KOIZUMISEIMA Since 1890



Agricultural Materials Catalog

Dattanda! Koizumiseima's Agricultural Materials



What does "dattanda!" mean?

Japanese phrase "dattanda!" has two key meanings:

1. An expression of amazement.
2. A phrase for discovering something previously unknown.

We aim to be an indispensable force that steadfastly supports agriculture and makes a lasting global impact beyond Japan, even if unnoticed in daily life. We hope that when people notice us, they say with surprise and inspiration:

"Koizumiseima *dattanda!*
We've been using Koizumiseima's products
for a long time!"

Greenhouse Inner Curtains

Improves light environments thanks to a unique folding method

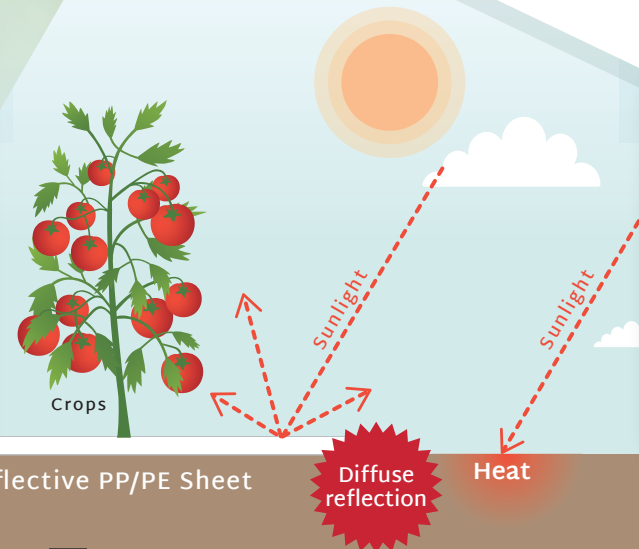


Reflective PP/PE Sheet

Installation around crops improves light environments



Reflective PP/PE Sheet



1

Reflective PE Sheet UV Plus

Installation around a greenhouse keeps pests out



Reflective PE Net UV Plus



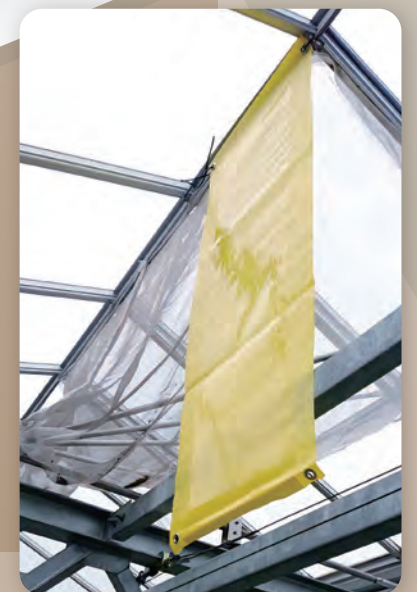
Reflective PE Screen

Contributes to reducing extreme heat



Woven Fabric Sheet with Adhesive

Attractive effect with two types of contrasts



2

Reflective PP/PE Sheet

Japanese Patent No.6319853



Best for

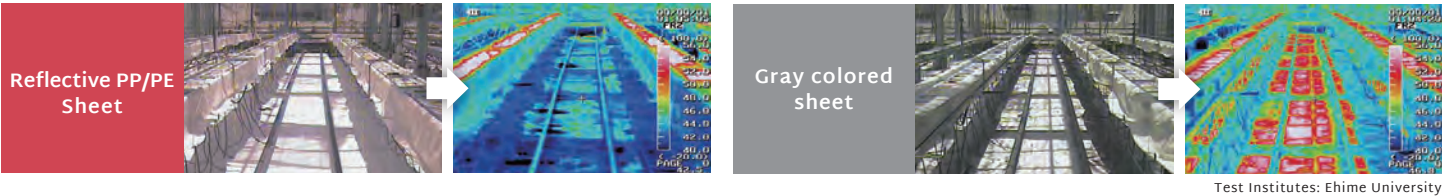
- Tomato
- Asparagus
- Eggplant
- Strawberry
- Grape
- Peach
- Persimmon
- Cherry
- Orange
- Apple
- Fig
- Flowers

Features



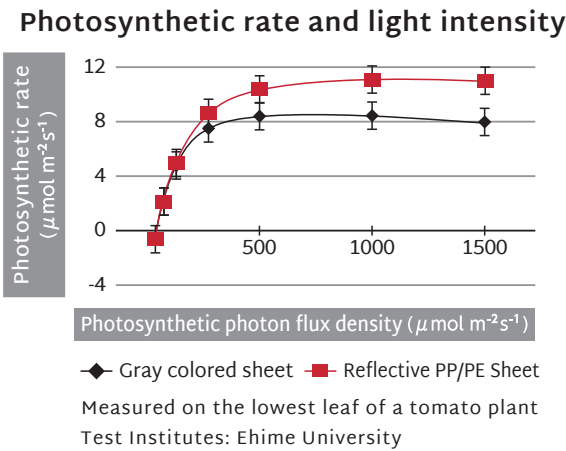
Heat Shielding

Suppresses temperature rise on the ground surface
by highly reflecting light in the infrared region



Improvement of Light Environment

Increases yield, enhances coloring
by highly reflecting light in the 400-700 nm region



Reflective PE Screen

Japanese Patent No.6319853

Shading Rate



MF50
45-50%

MF60
55-60%

MF70
65-70%

Best for

- Tomato
- Bell pepper
- Flowers
- Strawberry
- Leafy vegetables
- Live stock house

*Successful Applications in Japan

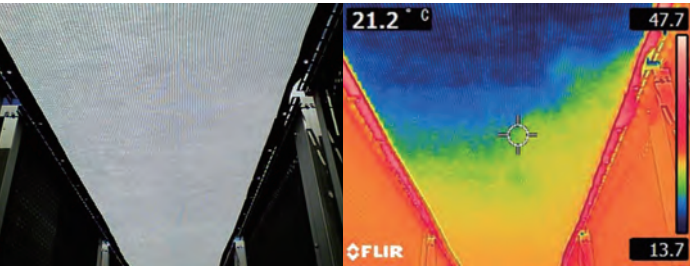
Features





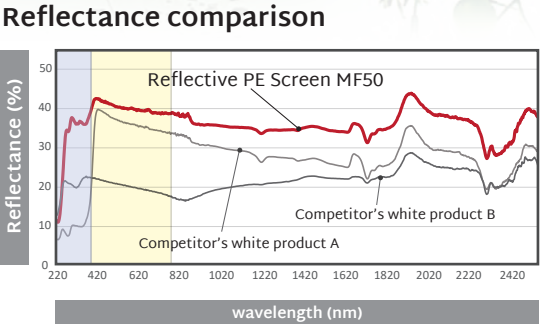
Heat Shielding

Contributes to reducing extreme heat and improving the working environment
through its high reflectivity and light diffusion



Strawberry Fruit Protector

Guards strawberries
against pest damage, water accumulation, and thermal burn



Improvement of the Growing Environments

Increases yield
by preventing high-temperature damage



YouTube

Heat shielding test in a greenhouse





YouTube

Case Study on Improving High-Grade Produce Ratio

Reflective Materials

Reflect light of a wide range of wavelengths to create a suitable environment for crops

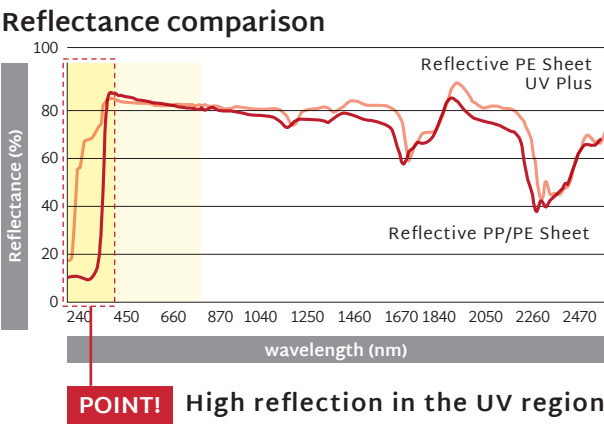


Reflective PE Sheet UV Plus

Japanese Patent No.6319853



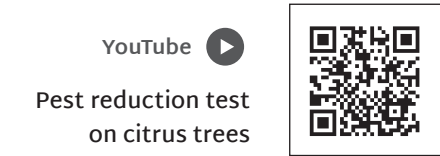
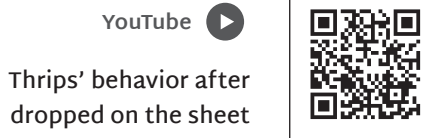
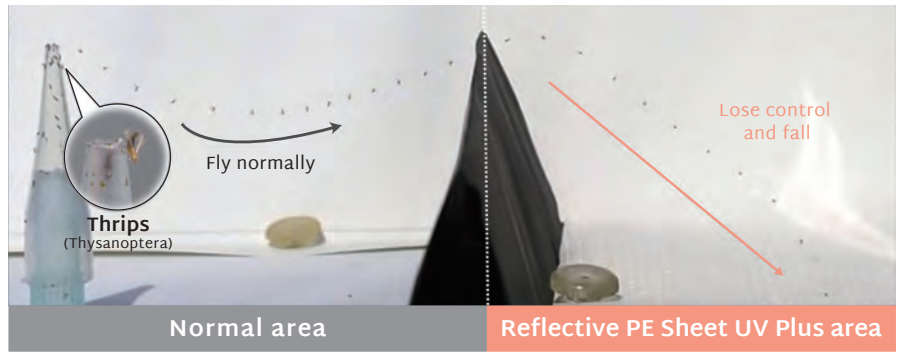
- Best for**
- Tomato
 - Strawberry
 - Grape
 - Dry onion
 - Green onion
 - Perilla
 - Eggplant
 - Asparagus
 - Cucumber
 - Fig
 - Orange
 - Apple
 - Blueberry
 - Flowers



Pest Control

Causes “flight confusion” of tiny pests

due to high reflection in the UV region.



Repellent effect test results (Sheet)

Product	Pest*1 Reduction Rate (%)	Installation Location
Strawberry	95	Around the greenhouse
	52	
	63	
	75	
Grape	85	Open-field
Dry Onion	90	Open-field, Furrow
	50	
Perilla	51	Around the greenhouse
Chrysanthemum	50	
	90	
Flowers	85	
	90	
Green onion	75	
Strawberry	80	

Crop yield increase test results (Sheet)

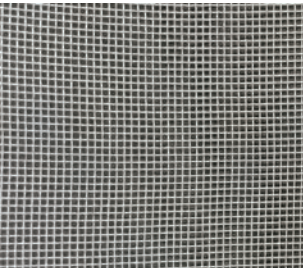
Product	Increased rate (%)	Installation location
Strawberry	105	Corridors in the greenhouse
	113	Corridors in the greenhouse, elevated bed
Tomato	107	Corridors in the greenhouse
	108	
Dry onion	120	Open-field, Furrow

*Comparison with normal area

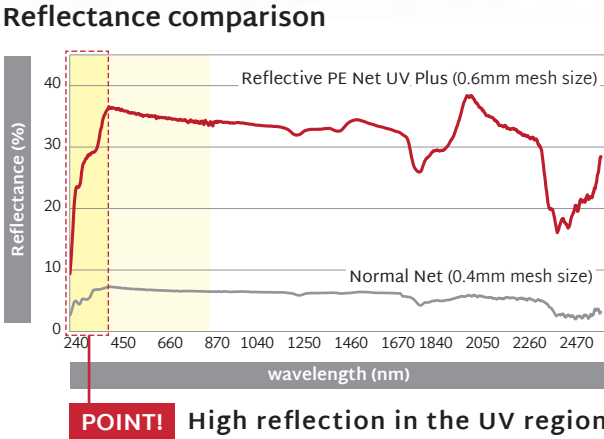


*1 Thrips (Thysanoptera)
*2 Comparison with normal area

Reflective PE Net UV Plus



- Best for**
- Tomato
 - Strawberry
 - Eggplant
 - Basil
 - Green onion
 - Paprika
 - Spinach
 - Avocado



Pest Control

Boosted repellency rate with synergistic effect of the sheet

Repellent effect test results(Sheet & Net)

Product	Pest*1 Reduction Rate (%)	
Strawberry	Sheet & Net	98
	Sheet only	87
Green Onion	Sheet & Net	96
	Sheet only	62

*1 Thrips (Thysanoptera)
*2 comparison with normal areas (without the sheet, with a normal 0.4mm mesh size net)

Ventilation

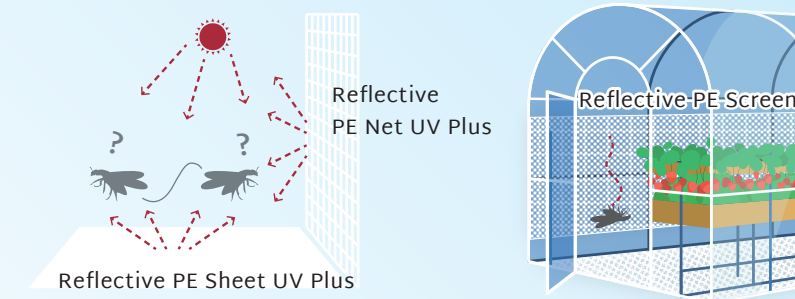
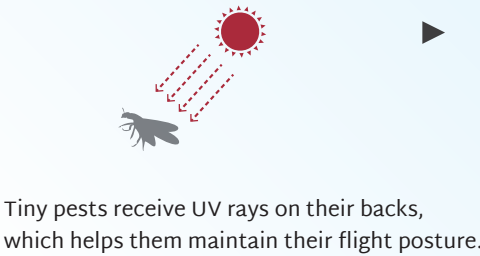
Enhances ventilation with a mesh size of 0.6 mm

Airflow and working environments in greenhouses can be improved



Pest repelling mechanism

- Reflective PE Sheet UV Plus
- Reflective PE Net UV Plus
- Reflective PE Screen



Our reflective material diffuses and reflects UV rays. As a result, pests become disoriented in flight and fall.

Greenhouse Inner Curtains

Venus Series

For Sliding and Roll-Up Systems

International Patent Pending
PCT/JP2024/033013



Our unique weaving method improves the way the curtains fold



White Strong



- + White film with heat-shielding performance equivalent to aluminum foil
- + High heat-shielding and insulation with multiple internal air pockets
- + Applicable to both inclined and horizontal systems
- + Certified with PET Bottle Environmental Recycling Mark

White

- + EVOH film
- + Excellent moisture absorption and permeability
- + High heat retention

Natural

- + EVOH film
- + Excellent moisture absorption and permeability
- + High heat retention
- + Reduces drip-off

Metal

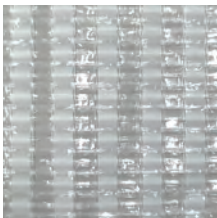
- + Aluminum foil
- + High heat-shielding performance
- + Excellent heat retention
- + Reduces heating costs in winter
- + Superior durability with a unique high-density weave



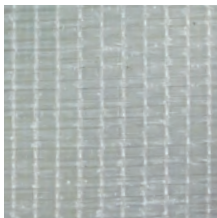
White Strong



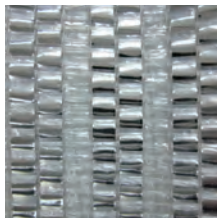
White #50



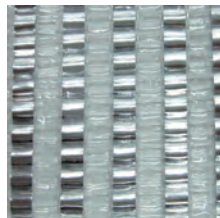
White #30



Natural

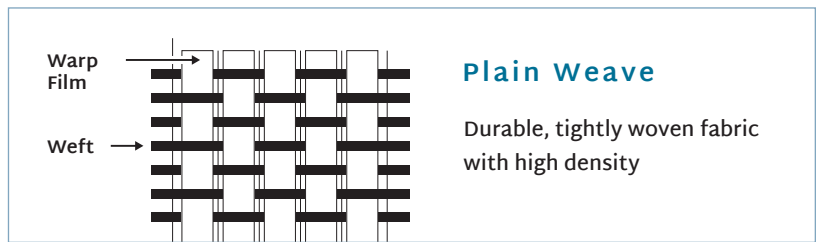


Metal #65



Metal #50

Item	Item number	Shading Ratio (Approx. %)	Thermal Insulation	Heat Shielding	Air Permeability	Moisture Permeability	Convergence	Film Structure	Material
White Strong	#50	50	○	◎	—	—	◎		Polyester, Polyethylene
White	#50	50	○	○	—	◎	◎		EVOH (White), Polyethylene
	#30	30	○	○	—	◎	◎		
Natural	—	20	○	—	—	—	◎		EVOH (Transparent), Polyethylene
Metal	#65	65	○	◎	—	—	◎		Aluminum Foil, Polyethylene Film, Polyethylene Yarn
	#50	50	○	◎	—	◎	◎		



Approximate durability:
5 Years

Superior Endurance

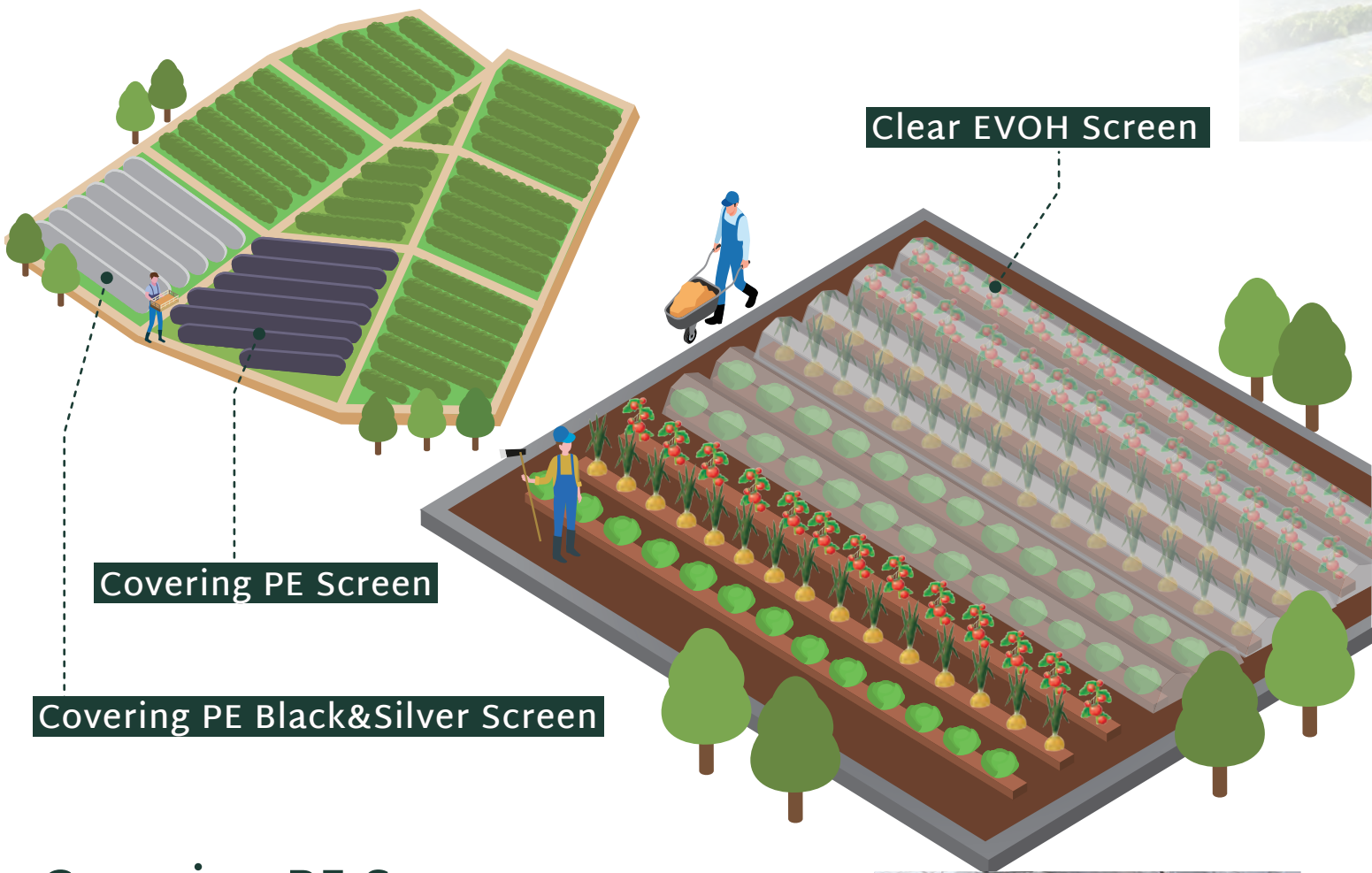


International Patent Pending

Achieves neat folding lines with minimal bulging

YouTube Curtain retraction improvement





Covering PE Screen



- + Heat shielding
- + Light blocking
- + Wind shielding
- + Heat retention



-Home gardening
-Outside / inside greenhouses
-Tea leaves
Can be used directly on tea leaves without causing damage



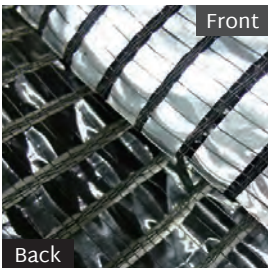
Covering PE Black&Silver Screen



- + Excellent heat shielding
- + Superior light blocking
- + Excellent ventilation
- + Protects tea leaves from strong sunlight



-High-grade tea leaves



Clear EVOH Screen

- + High transparency ensures ample sunlight
- + Excellent heat retention
- + Enhances photosynthesis



-Lettuce
-Chinese cabbage
-Potato
-Green onion
-Broccoli
-Celery
-Tea leaves
-Corn
-Green pepper and more

Heat Retention

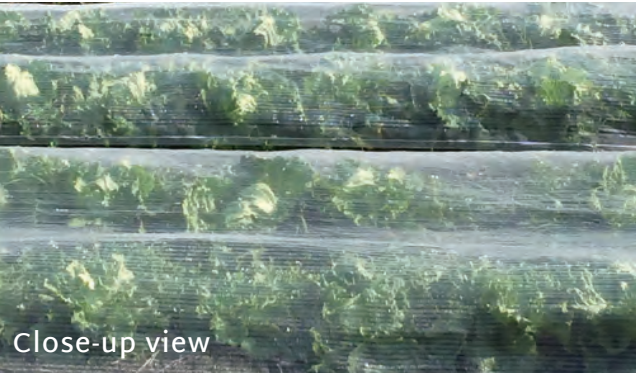
Provides 26% higher heat retention than polypropylene nonwoven fabric

Test conducted by Japan Textile Products Quality and Technology Center

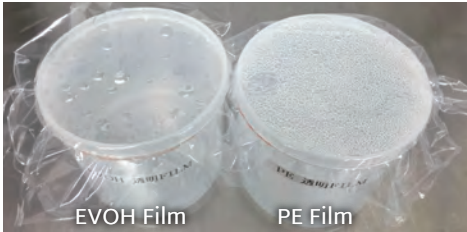


Transparency

Ensures ample sunlight with 94% light transmittance

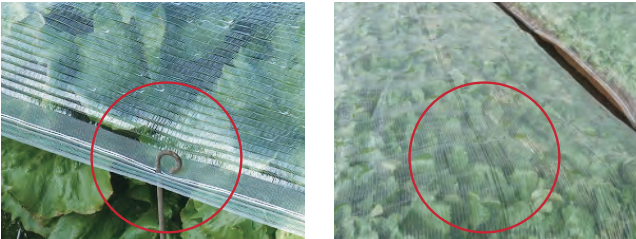


Breathable



Reduces moisture buildup and helps prevent pests and diseases

Strength



Reinforced edges resist tearing, even with pins in use
With a center line mark

Comparative test on lettuce

Applied Materials	Weight (g)	Diameter (cm)	High-Quality Product Rate(%)
Clear EVOH Screen	493	15.8	62
PP nonwoven fabric	444	15.8	46
PVC film	457	15.2	53.2

Test conducted by Awaji Island Japan Agricultural Cooperative

Comparison with PP Nonwoven Fabric

- + No fuzzing
- + Woven structure resists abrasion and prevents crop damage
- + Less fiber contamination



*Note: Due to the nature of the film, it may shrink lengthwise when it dries. Please ensure an adequate allowance shrinkage when installing.