



IPM MATERIAL CATALOG

I N T E G R A T E D
P E S T
M A N A G E M E N T



Technology for the future
Good Material, Good Life.

KOIZUMISEIMA

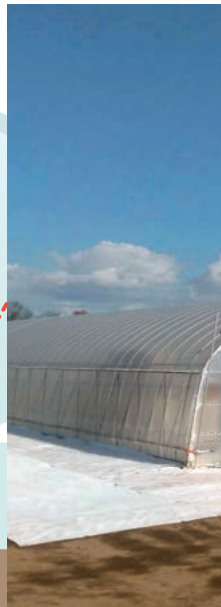
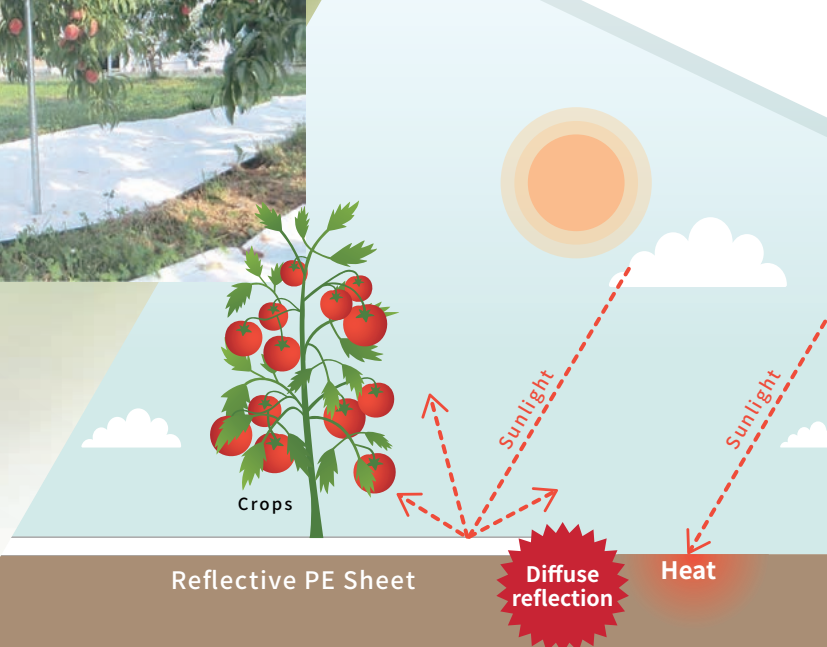
Since 1890

KOIZUMISEIMA's IPM × Reflective material



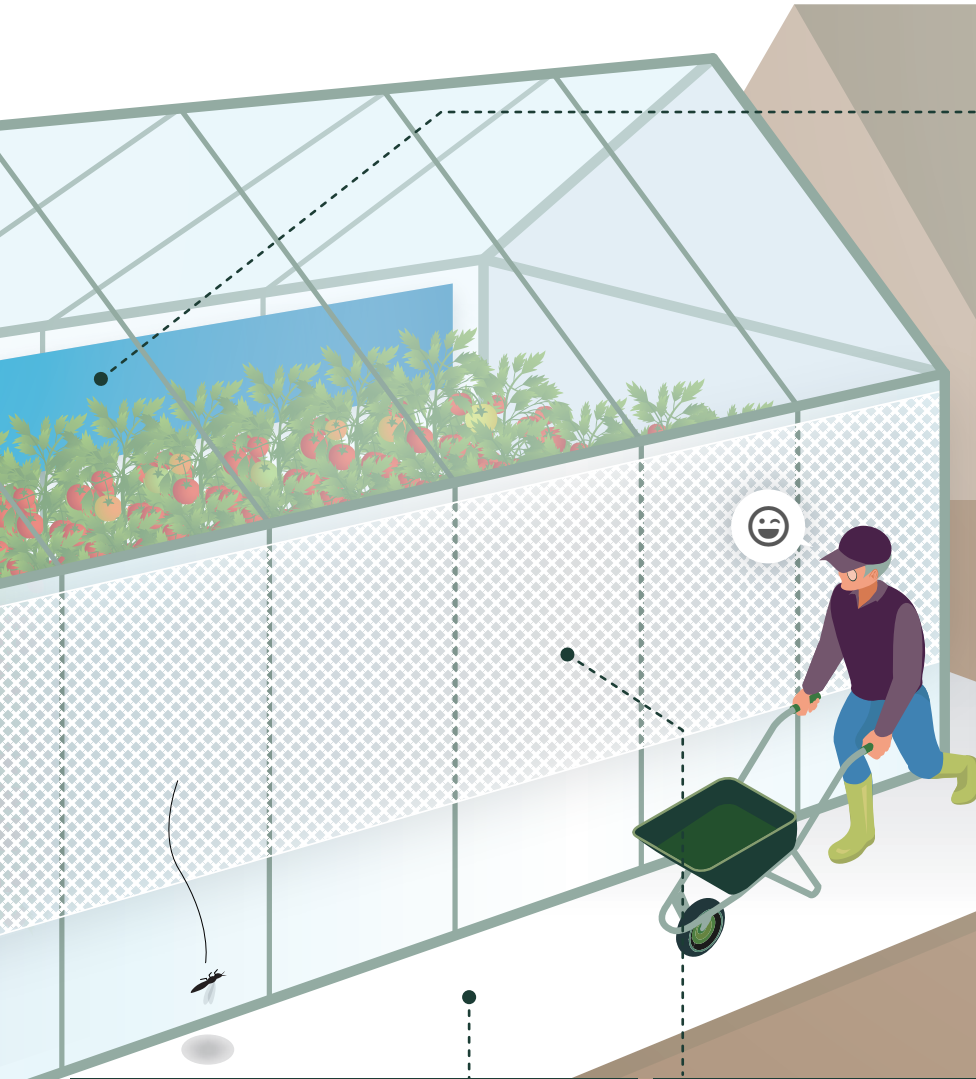
Reflective PE Sheet

Improves the light environment
by installing around the crops



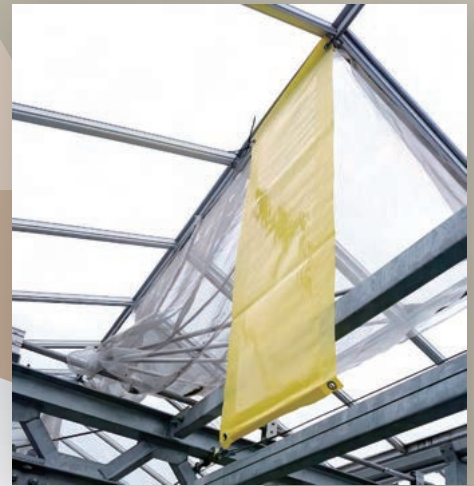
What is IPM (Integrated Pest Management) ?

It is a "comprehensive" pest control using multifaceted methods such as physical, biological, chemical, and cultivating control. By controlling and preventing the outbreak of pests without relying solely on the use of chemical pesticides (chemical control), we can reduce the burden on the surrounding environment and suppress the outbreak of pests that adapt to pesticides (resistant pests).



Woven fabric sheet with adhesive

Attractive effect with two distinct contrasts



Reflective PE Sheet UV plus Reflective PE Net UV plus

By installing around greenhouses, keeps pest from invading inside

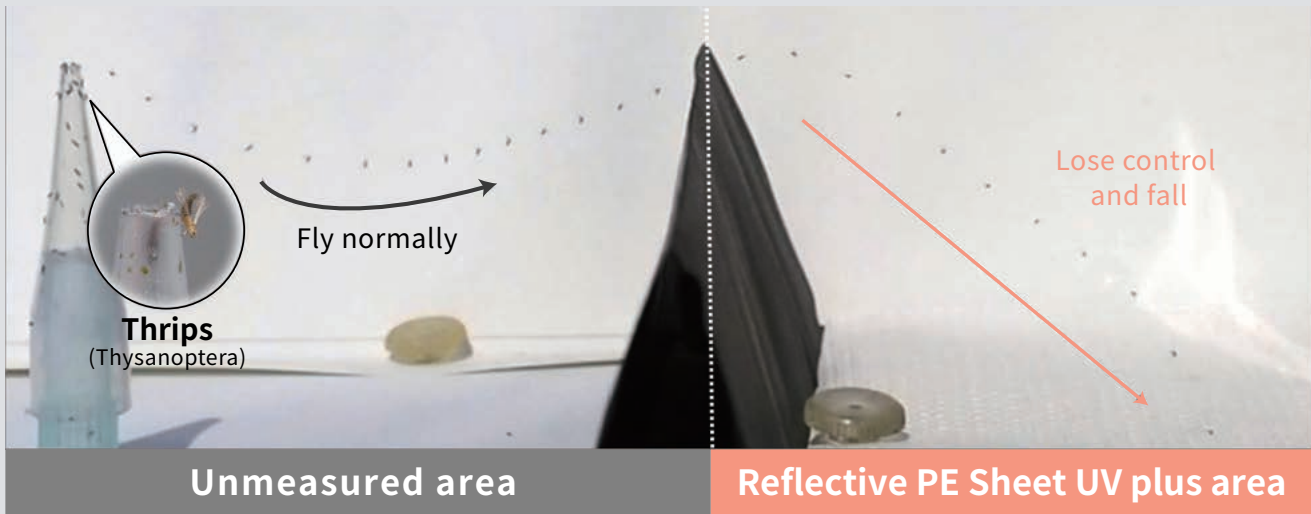
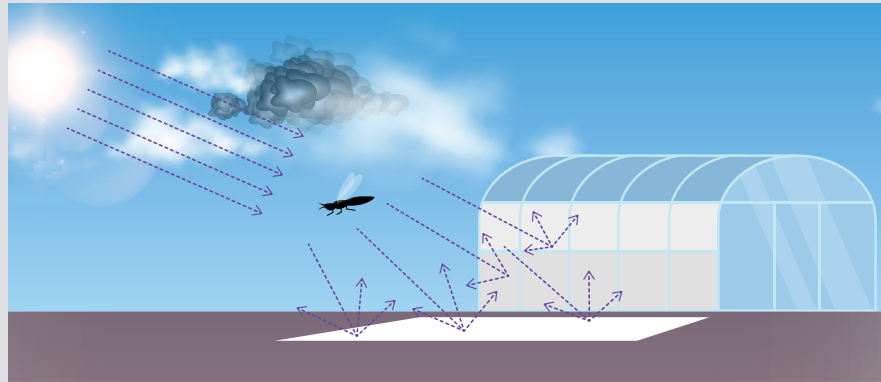


KOIZUMISEIMA's Reflective

Pest Control

Causes
“flight confusion”
of micro-pests

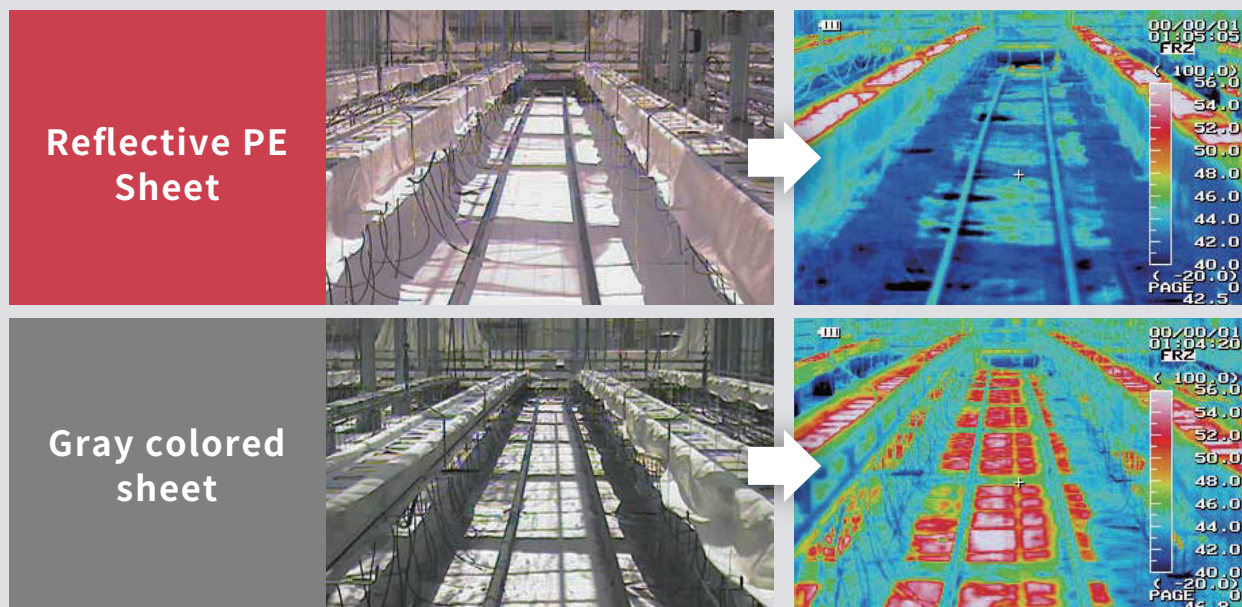
by high reflection of UV range



Heat Shield

Suppresses temperature rise of the ground

by high reflection of infrared range



Test Institutes: Ehime University

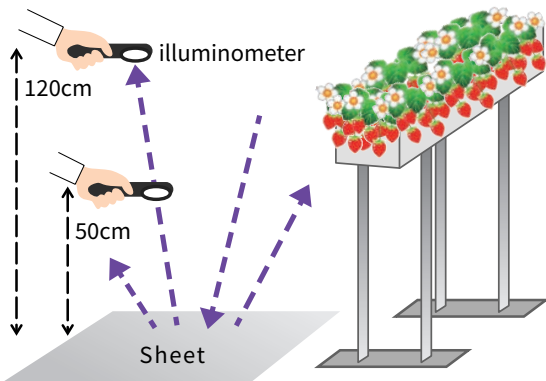
material



Improvement of light environment

Increases yield, enhances coloring

by high reflection of 400-700nm wavelength range

Mesurement of illuminance on the underside of the leaf

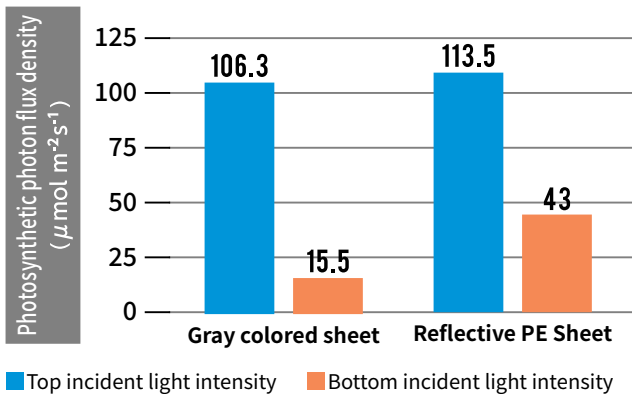


	Measurement point	120cm above the ground	50cm above the ground
March 8 	Black colored sheet	2,410	1,531
	Reflective PE Sheet	10,415	13,501
March 9 	Black colored sheet	63	56
	Reflective PE Sheet	360	364

Unit: Lux

Test Institutes: Tokushima Agriculture, Forestry, and Fisheries Technology Support Center

Incident light intensity from the upper and lower surfaces of each section

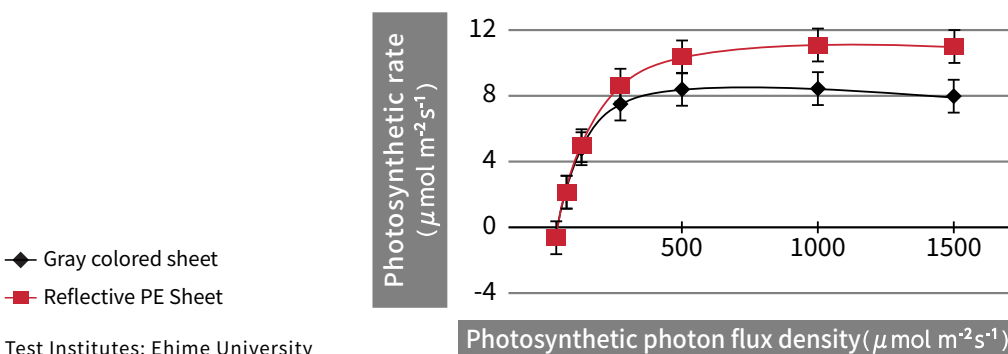


Reflective PE Sheet

Test Institutes: Ehime University

Measured at the lowest leaf of a tomato plant (approximately 130cm from the ground)

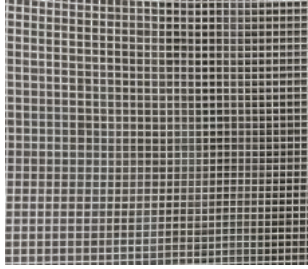
Light and Photosynthetic rate



Test Institutes: Ehime University

Measured at the lowest leaf of a tomato plant

Reflective PE Net UV plus



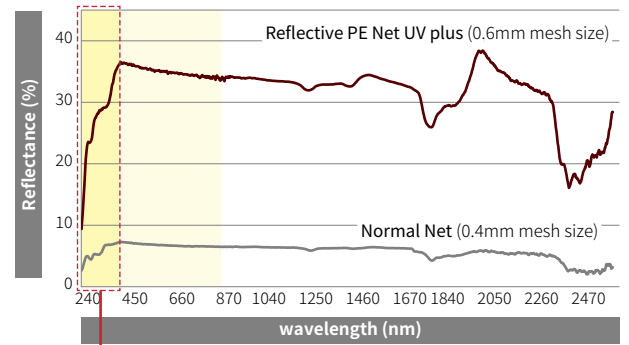
Best for

- Tomato
- Strawberry
- Eggplant
- Basil
- Green onion
- Paprika
- Spinach
- Avocado

Features



Reflectance comparison graph



POINT! High reflection of UV range

Reflective PE Sheet UV plus

Japanese Patent
No.6319853



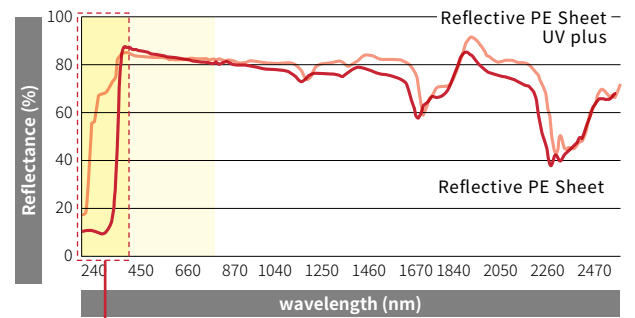
Best for

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

Features



Reflectance comparison graph



POINT! High reflection of UV range

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	

Increase Crop Yield 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 unmeasured area



*1 Thrips (Thysanoptera)

*2 Comparison with unmeasured area

Ventilation

For better ventilation, the mesh size is 0.6mm.
Improves airflow and the working environment in greenhouses.

Repellent effect test result (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

(No sheet, with Normal 0.4mm mesh size net)



Reflective PE Sheet | Japanese Patent No.6319853



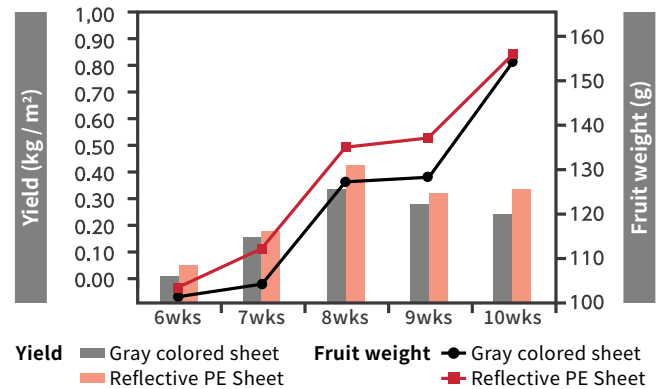
Best for

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

Features



Yield and tomato fruit weight

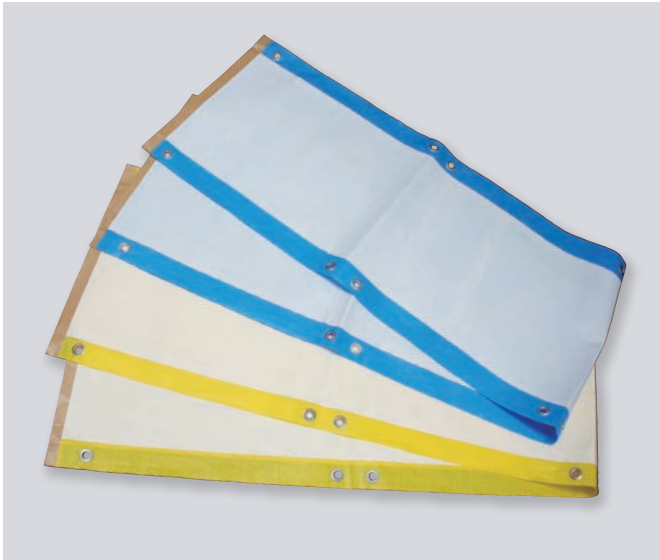


Test Institutes: Ehime University



IPM Material

Woven fabric sheet with adhesive



- ① Contrast of light and shade due to the irregular translucency of the warp and weft threads of the fabric
- ② Stereoscopic contrast created by the uneven surface structure peculiar to textiles

Attract pests by both effects of ① + ②



Yellow



Blue

- | | | | |
|-----------------|----------------|-----------------|---------------|
| • 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. |

Protection Fabric Baron screen

Shade Net / Black color

Functions

- Light shield
- Heat shield
- Windbreak
- Heat retention

Features

- Lightweight
- Durable
- Chemical resistant
- Ideal for long-term use



Best for

- Home gardening
- Outside / inside green houses
- Tea production

Can be used directly on tea leaves without causing damage.



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

