



Heat Retention Material for Agricultural Polyolefin Film [Hydrotalcite]

FEATURES

TODA KOGYO's hydrotalcite (Mg and Al layered compound) have excellent infrared absorption property and transparency. They can enhance heat retention when mixed into a polyolefin film for agricultural greenhouses. Consequently, hydrotalcite contribute to the protection of the global environment by reducing the energy.

CHARACTERISTICS

Excellent heat retention

The reduction of temperature can be effectively suppressed in agricultural greenhouses with excellent infrared absorption property in the range of 400-2000 cm⁻¹.

High transparency
They show high transparency sind

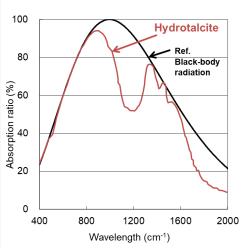
They show high transparency since they have a refractive index close to polyolefin resin which is the base material of agricultural films.

Excellent adsorption
Resin deterioration can be prevented since they adsorb various anions (halogen ions, etc.).

SPECIFICATIONS

(Specifications)

Туре	Dispersibility improvement type	Anti-forming type
MgO/Al ₂ O ₃	5.4	4.8
Specific surface area (m²/g)	9~11	9~12
Refractive index	1.48~1.51	
SEMimage	1µm	1µm a



[Heat retention performance (infrared absorption rate)]

Resin: LLDPE(CX-2001), Content rate: 16wt%

APPLICATIONS

- Agricultural polyolefin film (enhancement of heat retention)
- Various anion adsorbents (i.e. PVC stabilizers, catalyst residue stabilizers, dyes)



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