

Functional adsorption material

Heat Retention Material for Agricultural Polyolefin Film [Hydrotalcite]



OVERVIEW

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.

FEATURES

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

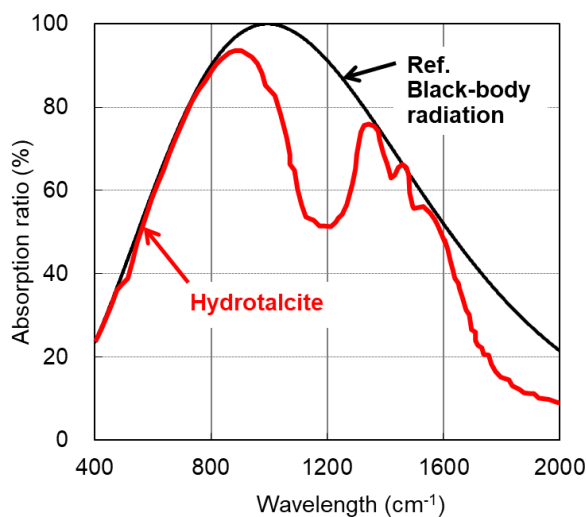
Excellent adsorption

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

CHARACTERISTICS

【Specifications】

Type	Dispersibility improvement type	Anti-forming type
MgO/Al ₂ O ₃	5.4	4.8
Specific surface area (m ² /g)	9~11	9~12
Refractive index	1.48~1.51	
SEM image		



【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)

TODA KOGYO CORP. TOKYO OFFICE

Shiba Mita Mori Building 6F, 5-13-15 Shiba, Minato-ku, Tokyo 108-0014, Japan Tel +81-3-5439-6040 E-mail: webmaster@todakogyo.co.jp

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