

Antibiotic Agent (Nano-Silver) Masterbatch

Introduction

Antibiotic agent masterbatch containing nanometer Silver particles kills or inhibits the growth of bacteria and virus. It is mainly for antibiotic applications such as home appliances, food packaging and baby toys.

Product Benefits

- Excellent antibiotic effect in molded articles
- Environment friendly and non-toxic in food contact
- Possible to make transparent products with the anti-biotic property
- Minimize to change of original physical properties of molded article

Nano-Silver

Silver has been recognized as one of the most efficient germicides. While other antibiotics can kill as many as a half-dozen different kinds of disease organisms, silver is known to kill around 650 species of bacteria or viruses simply by contacting with them. Particle size has been the only limiting factor to silver's effectiveness.

Applications

- Home appliances
- Food storage containers with various transparent plastics
- Baby bottles and Toys
- Food packaging films

Composition

- Additive: Nano Silver particles
- Carrier Resins: Various polymers

Recommended Dosage Rate

- Injection molding : Up to 6 wt%
- Blow molding and Films : 2 ~ 8 wt%

Because processability and quality of applications are depended on processing conditions (temperature, pressure, speed, etc.) and applied resins, the optimum dosage rate must be determined by pre-test.