

# Antibacterial Masterbatch of Acrylonitrile Butadiene Styrene (ABS) Polymer

## Characterization and Description

### Description

P111 - ABS is a 10% zinc oxide based antibacterial masterbatch with excellent dispersibility and good flow characteristics. Addition of this masterbatch through your process will bring durable antibacterial efficiency against both Gram- negative and Gram- Positive bacteria and some types of fungus to your final product.

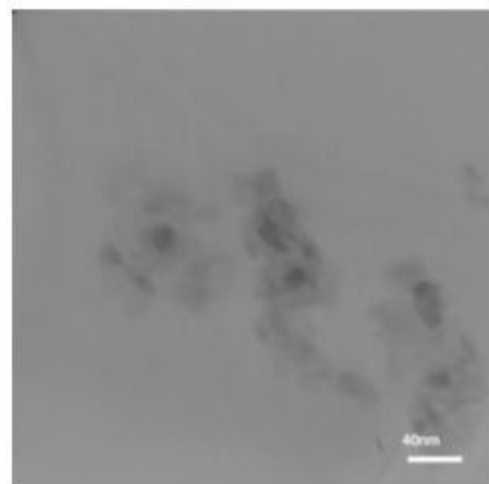
## Antibacterial Masterbatch of ABS



### Physical / Chemical Properties

Physical state (Form)	Granule, Compound (masterbatch)
Properties & Use	Antibacterial
Appearance	White (Cream)
Odor	None
Concentration	Pure

TEM images of ultra -microtome ABS granules containing ZnO nanoparticles



### Applications

Appliance, Household, Hygiene Equipment, air conditioner, toys, sanitary ware, cosmetic packaging

### Typical Properties

Properties	Value (Unit)
Density	~1.060(g/Cm <sup>3</sup> )
Additive Content	10 (%)
Recommended Processing Temperature	180- 250(°C)

### Recommended Dosage

About 10% in final product for ~4Antimicrobial efficiency