

# Antibacterial masterbatch of Poly Propylene (PP) Polymer

## Characterization and Description

### Description

P121-PP 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.

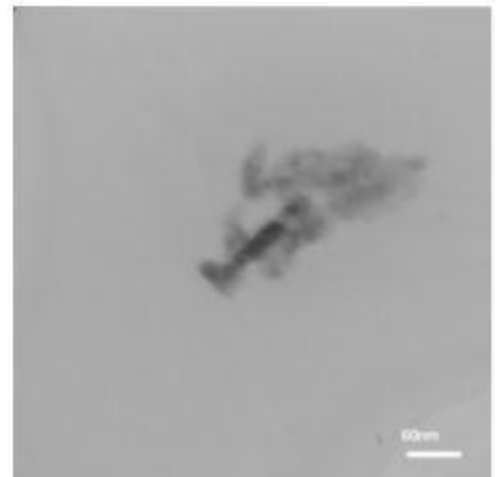
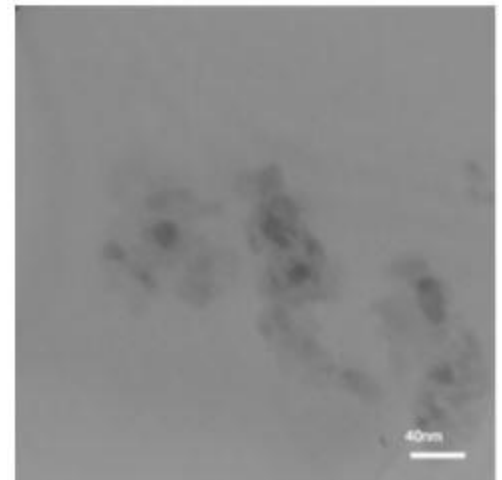
### Antibacterial masterbatch of PP



### Physical / Chemical Properties

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

TEM images of ultra - microtome PP granules containing ZnO nanoparticles



### Applications

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

### Typical Properties

Properties	Value (Unit)
Density	~0.946 (g/cm <sup>3</sup> )
Additive Content	10 (%)
Recommended Processing Temperature	130- 200 (°C)

### Recommended Dosage

About 10% in final product for ~4 Antimicrobial efficiency