

Antibacterial Masterbatch of Polyamide Characterization and Description

Description

P151-Polyamide 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.

Physical / Chemical Properties

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

Applications

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

Typical Properties

Properties	Value (Unit)
Density	~1.14 (g/cm ³)
Additive Content	10 (%)
Recommended Processing Temperature	200-300 (°C)

Recommended Dosage

About 10% in final product for ~4 Antimicrobial efficiency

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TEM images of ultra-microtome Polyamide granules containing ZnO nanoparticles

