



## Technical Datasheet

### Product: Antibacterial Polypropylene Masterbatch

### Grade: C1PP-ABM

#### Product Description:

C1PP-ABM is an antibacterial polypropylene masterbatch using nanotechnology that has good antibacterial properties and excellent dispersibility.

#### Applications:

- Home appliance.
- Washing machine and dishwasher parts.
- Cooling towers
- Body of evaporative coolers.
- Pipes and fittings.
- The internal body of the refrigerator.
- PP and BOPP films.
- Food packaging containers.
- Textiles.
- Water storage tanks.
- Plastic parts of toys.
- Plastic toilet parts.

#### Appearance:

Host Polymer	PP
Appearance	Granules
Color	Natural
Dispersion	Excellent

#### Physical Properties:

Properties	Unit	Value	Standard
Melt Flow Index (230°C , 2.16 Kg)	g/10min	25	ASTM D1238
Specific Gravity	g/cm <sup>3</sup>	0.9	ASTM D792

#### Antimicrobial Properties:

Properties	Type of Microorganism	R (Antimicrobial Activity)*	Standard
Antibacterial Performance	E.coli (ATCC : 25922)	2<	Iso 22196
Antibacterial Performance	S.aureus (ATCC : 25923)	2<	Iso 22196
Antifungal Performance	C.albicans (ATCC : 10231)	2<	Iso 22196

\* Antimicrobial activity above 2 is desirable.

**Dosage:** Using very low percentages of these materials (between 3-5% by weight) in the process of the plastic will result in the creation of genuine and complete antibacterial components and structures.

**Note:** The information provided in this data sheet is based on our present state of knowledge and is estimated by Payesh C1 Polymer Co.. This information should not be used as guaranteeing specification limits. Payesh C1 Polymer Co. make no warranty and liability in connection with any use of this information.