



Technical Datasheet

Product: Antibacterial Polyethylene Masterbatch

Grade: C1PE-ABM

Product Description:

C1PE-ABM is an antibacterial polyethylene masterbatch using nanotechnology. C1PE-ABM exhibit excellent antibacterial properties.

Applications:

- Polyethylene tanks.
- Polyethylene films.
- Geomembranes.
- Bottle cap.
- Pipe and fitting.
- Home appliance.
- Medical Equipment.
- Recycling bins.

Appearance:

Host Polymer	PE
Appearance	Granules
Color	Natural
Dispersion	Excellent

Physical Properties:

Properties	Unit	Value	Standard
Melt Flow Index (190°C , 2.16 Kg)	g/10min	4	ASTM D1238
Specific Gravity	g/cm ³	0.94	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.