



Technical Datasheet

Product: Antibacterial Polyvinyl Chloride Masterbatch

Grade: C1PVC-ABM

Product Description:

C1PVC-ABM is an antibacterial polyvinyl chloride masterbatch using nanotechnology. C1PVC-ABM is added to the PVC granule formulation and exhibit excellent antibacterial properties.

Applications:

- Medical Equipment.
- Unplasticized polyvinyl chloride profiles.
- Refrigerator door gasket.
- Door gasket for food packaging containers.

Appearance:

Host Polymer	PVC
Appearance	Powder
Color	Natural
Dispersion	Excellent

Physical Properties:

Properties	Unit	Value	Standard
K-Value	-	65	ASTM D1243
Bulk Density	g/cm ³	0.53-0.59	ASTM D1895

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 1-2% 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.