

## Technical Datasheet

### Product: Antibacterial Polystyrene Masterbatch

### Grade: C1PS-ABM

#### Product Description:

C1PS-ABM is an antibacterial polystyrene masterbatch with a good antibacterial property and an excellent dispersion. C1PS-ABM maintains the transparency of polystyrene.

#### Appearance:

Host Polymer	PS
Appearance	Granules
Color	Transparent
Dispersion	Excellent

#### Physical Properties:

Properties	Unit	Value	Standard
Density	g/cm <sup>3</sup>	1.05	ASTM D792
Melt Flow Rate (200°C , 5 Kg)	g/10min	12	Iso 1133
Water Absorption (saturation value) 23 °C; 50 % r. h.	%	<0.1	Iso 62

#### 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 2-3% 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 C-One Polymer Co.. This information should not be used as guaranteeing specification limits. Payesh C-One Polymer Co. make no warranty and liability in connection with any use of this information.