

## Technical Datasheet

### Product: Antibacterial Polycarbonate Masterbatch

### Grade: C1PC-ABM

#### Product Description:

C1PC-ABM is an antibacterial polycarbonate masterbatch using nanotechnology that has a good antibacterial property and an excellent dispersion. C1PC-ABM maintains the transparency of polycarbonate.

#### Applications:

- Home appliance.
- Baby accessories.

#### Appearance:

Host Polymer	PC
Appearance	Granules
Color	Transparent
Dispersion	Excellent

#### Physical Properties:

Properties	Unit	Value	Standard
Density	g/cm <sup>3</sup>	1.2	ASTM D792
Melt Flow Rate (300°C , 1.2 Kg)	g/10min	20	Iso 1133
Water Absorption (saturation value) 23 °C; 50 % r. h.	%	0.3	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 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.