

Conductive Masterbatch / Compound

▶ Application

Conductivity imparting agent for plastic molded articles

Application	Examples	Resistivity [$\Omega \cdot \text{cm}$] <Reference value>
Dust protection	Wafer rack, case, basket	$10^5 \sim 10^8$
Electrostatic destruction prevention	Container, corrugated plastic, IC tray	$10^3 \sim 10^6$
Static electricity elimination	Static elimination roll / brush	$10^0 \sim 10^2$
Heat generation	Flexible heating sheet, wire heater	$10^{-1} \sim 10^1$

Applicable to various plastic products containing conductive carbon black

▶ Characteristics

- Excellent in designability corresponding to broad range of conductivity ($10^2 \sim 10^6 \Omega \cdot \text{cm}$), and adjustability of resistivity according to the amount of content
- Less damage to processing facilities and also easy processing compared with other conductive materials
- Designed for versatile applications of molded articles
- No change in performance even after surface wiping and washing
- Excellent in corrosion-resistance
- We can also offer formulation design tailored to customer needs.

▶ Representative Products

Base resin	Product name
PP	PP-M 300
PS	PS-M 400
ABS	AB-M 500
PE	PE-M 700

Detailed data of physical properties are separately prepared.

▶ Application

Antistatic agent for various plastic molded articles (sheets, films, injection molded articles, etc.)

▶ Characteristics

- Masterbatch dispersed with antistatic agent, having excellent workability, anti-staining property and automatic weighing performance of fixed quantity supplying machine
- Applicable to a wide range of plastic products such as olefin, styrene and PET resins
- We offer a surfactant-based antistatic agent and a permanent antistatic agent.
- Some products registered and approved by Japan Chemical Innovation and Inspection Institute (JCII) are applicable to food packaging containers.

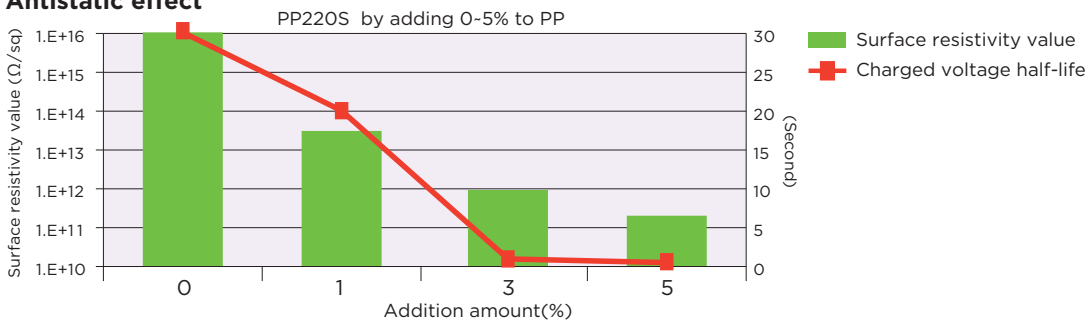
▶ Representative Products

Product name	Recommended applicable resin	Recommended molding method and addition amount
Surfactant type		
PE 220	LD-PE	Injection, extrusion, more than 0.5%
PE 205S	LLD-PE	Injection, extrusion, more than 3%
PE 720D	HD-PE	Injection, extrusion, more than 5%
PP 220S	PP	Injection, extrusion, more than 2%
PP 4320	PP	Extrusion, more than 2.5%
PS 115	PS	Injection, extrusion, more than 5%
AS 115	AS	Injection, more than 5%
ABS 120	ABS	Injection, extrusion, more than 5%
PT 720(D)-1	PET	Injection, extrusion, more than 5%
Permanent antistat type		
PAS 205	PE,PP,PS,etc.	Injection, extrusion, more than 10%

Antistatic Agent Masterbatch

▶ Evaluation Results

Antistatic effect



* Above is our internal experimental data. It is not guaranteed.

