

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 ($10^2 \sim 10^6 \Omega \text{cm}$), 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.

Antistatic Agent Masterbatch

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 115-1	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%

Evaluation Results

