Application
Providing electrical conductivity to plastic molded articles.

<table>
<thead>
<tr>
<th>Application</th>
<th>Examples</th>
<th>Resistivity [Ω·cm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust protection</td>
<td>Wafer rack, case, basket</td>
<td>10^{15} ~ 10^{18}</td>
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<tr>
<td>Electrostatic destruction prevention</td>
<td>Container, corrugated plastic, IC tray</td>
<td>10^{15} ~ 10^{18}</td>
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<tr>
<td>Static electricity elimination</td>
<td>Static eliminating roll/brush</td>
<td>10^{15} ~ 10^{18}</td>
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<tr>
<td>Heat generation</td>
<td>Flexible heating sheet, wire heater</td>
<td>10^{15} ~ 10^{18}</td>
</tr>
</tbody>
</table>

Recommended applicable resin
- LD-PE
- LLD-PE
- HD-PE
- PP
- PS
- AS
- ABS
- PET
- PE, PP, PS, etc.

Surfactant type
- PE 220
- PE 205S
- PE 720D
- PP 220S
- PP 220U
- PS 115
- AS 115
- ABS 120
- PT 720(D)-1
- PAS 205 (PE, PP, PS, etc.)

Recommended molding method and addition amount
- Injection, extrusion, more than 2%
- Injection, extrusion, more than 3%
- Injection, extrusion, more than 5%
- Injection, extrusion, more than 2%
- Extrusion, more than 3%
- Injection, extrusion, more than 8%
- Injection, extrusion, more than 8%
- Injection, extrusion, more than 8%
- Injection, extrusion, more than 4%
- Injection, extrusion, more than 15%

Permanent antistat type
- PE 220S by adding 0~5% to PE

Detailed data of physical properties are separately prepared.

Characteristics
- Excellent designability corresponding to broad range of conductivity (10^{15} ~ 10^{18} Ω·cm), and adjustability of resistivity according to the compounded amount.
- Less damage to processing facilities and the easiness in processing, compared to other conductive materials.
- Designed for versatile application and the molded articles.
- No change in performance even after surface-wiping and -washing.
- Excellent corrosion-resistance.
- Acceptable for custom tailored design on request.

Antistatic Masterbatch
Applicable to various plastic products containing conductive carbon black.

Characteristics
- Masterbatch excellent in workability, anti-staining properties and automatic measurability with fixed quantity supplying machine, containing antistatic agent dispersively.
- Applicable to wide range of plastic products, such as olefin resins, styrene resins, PET resins.
- Capable of providing surfactant and permanent antistatic types.
- Some products were registered and approved by Japan Hygienic Olefin And Styrene Plastics Association (JHOSPA), and applicable to food packaging containers.

Evaluation Results
- Antistatic effect

\[ \text{Surface resistivity value (Ω·cm)} \]

\[ \text{Charged voltage half-life (Second)} \]

- PP220S by adding 0-5% to PP

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