STAT-3S Continuous type Anti-static film

No addition non-charging with antistatic polyethylene film (Slip type & Non-slip type)

(Features)
STAT-3S polymer itself satisfied with an anti-static "Safety", "Stability" and "Satisfactory" for non-charging with electricity characteristics.
STAT-3S does not change in quality by a switchover any of additive material to your product in this bag.
There is not humidity dependence, and Static Decay time is extremely short.
There is an effect in stable resistance value semipermanently less than $10^{6}$ internal Ω and less than $10^{5}$ surface resistance value outside Ω.
No addition non-charging with antistatic polyethylene film) Slip type & Non-slip type

Example: Inner packages of plastic can, drum or carton box

<table>
<thead>
<tr>
<th>No.</th>
<th>Thickness</th>
<th>Size</th>
<th>Thickness Width Length Qnty./1cs</th>
</tr>
</thead>
<tbody>
<tr>
<td>3S-0715</td>
<td>0.05</td>
<td>30μ~150μ</td>
<td>Width: 50mm~1200mm</td>
</tr>
<tr>
<td>3S-1015</td>
<td>0.05</td>
<td>100</td>
<td>150</td>
</tr>
<tr>
<td>3S-1020</td>
<td>0.05</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>3S-1525</td>
<td>0.05</td>
<td>150</td>
<td>250</td>
</tr>
<tr>
<td>3S-2030</td>
<td>0.05</td>
<td>200</td>
<td>300</td>
</tr>
<tr>
<td>3S-2535</td>
<td>0.05</td>
<td>250</td>
<td>350</td>
</tr>
<tr>
<td>3S-3040</td>
<td>0.05</td>
<td>300</td>
<td>400</td>
</tr>
<tr>
<td>3S-3545</td>
<td>0.05</td>
<td>350</td>
<td>450</td>
</tr>
<tr>
<td>3S-4050</td>
<td>0.05</td>
<td>400</td>
<td>500</td>
</tr>
</tbody>
</table>

The size except the above becomes the build-to-order manufacturing

STAT-FDM FDA Anti Static film

1. prevent an electrostatic obstacle and a powder explosion by materials. (FDA §177, 1330, §177, 1520(a)(1)(a)(1) §178, 2010)
2. Based on MIL-PRF-81705D, an ASTM-D257 standard as the prevention of electric obstacle.
3. For 25kg bag: A characteristic of a tough material and a heat seal bag of stable consistency strength.
4. The anti-static character keeps high performance even if it is low temperature, high temperature and high humidity.
5. The anti-static character keeps high performance even though the film get wet, wipe and rub.

NON AMINE ANTI-STATIC(NON-SURFACTANT),POLYMER ANTI-STATIC BAG

Example: Inner packages of plastic can, drum or carton box

Size: Thickness: 0.05mm – 0.1mm / Width: 150mm ~ 1200mm

*We accept the FIBC(LZ conformity) inner package
*We accept the tube for the automatic filling.

STAT-FDC Anti-Static Flexible Container Inner Bag (FIBC liner)

Ideal as a FIBC inner bag for food and food additives and fine chemical products.

(Features) Packaging material specialized for powder. Ideal for pharmaceutical intermediate raw materials.

1. There is no need to worry about the transfer of the antistatic agent because the polymer type non-charged resin is used.
2. There is not humidity dependence, and Static Decay time is extremely short.
3. Electrostatic band voltage 5000 V ⇒ 50 V Decay time Less than 1 second.
4. International standard IEC61340-4-4 L2 passed(SWIS Process Safety GmbH)2010
5. Products based only on FDA compliant raw materials.

Size: Thickness 0.05mm-0.08mm Width 1500mm~2100mm

※Standard tube 0.08mm×1900mm is stocked. We are able to cut specified dimensions.
※Please ask about bespoke size, special shape bag processing.

Euregulation No10/2011 Dry Acquisition of specification declaration
Health, Labor and Welfare Notification No. 201 passed

STAT-Excellent Film (High performance antistatic film)

1. STAT–Excellent Film (STAT–EF) (High performance antistatic film)
   High spec film with surface resistance of $10^{5}$ Ω (Measurement environment: $23 \degree C \times 50$% RH)
   1. There is no concern about the migration of the antistatic agent, because this film is used by a polymer type non-charged resin.
   2. There is not humidity dependence, and Static Decay time is extremely short, and stable surface resistance is maintained.

2. STAT–Excellent Film Weatherability (STAT–EFW) (High-performance anti-static with weathering film)
   High spec film with surface resistance of $10^{5}$ Ω (Measurement environment: $23 \degree C \times 50$% RH)
   1. There is no concern about the migration of the antistatic agent, because this film is used by a polymer type non-charged resin.
   2. There is not humidity dependence, and Static Decay time is extremely short, and stable surface resistance is maintained.
   3. This film is weather resistance.
STAT-MBP is the long-acting non-chargeable olefin, and two 3-layer moisture-proof bag. Polyethylene film with nylon makes excellent moisture-proof & transparent film which is not like a aluminum foil, high-performance product.

<table>
<thead>
<tr>
<th>Test Items</th>
<th>Unit</th>
<th>Other</th>
<th>STAT-MBP</th>
<th>General nylon&amp;polyethylene (Company A)</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile yield point stress</td>
<td>MPa</td>
<td>MD</td>
<td>38.7</td>
<td>22.8</td>
<td>JIS K 7127</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TD</td>
<td>33.1</td>
<td>22.1</td>
<td></td>
</tr>
<tr>
<td>Tensile rupture stress</td>
<td>MPa</td>
<td>MD</td>
<td>34.7</td>
<td>42.4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TD</td>
<td>34.6</td>
<td>43.4</td>
<td></td>
</tr>
<tr>
<td>Elongation</td>
<td>%</td>
<td>MD</td>
<td>158</td>
<td>409</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TD</td>
<td>233</td>
<td>423</td>
<td></td>
</tr>
<tr>
<td>Moisture vapor transmission</td>
<td>g/m²¹d</td>
<td>Outside</td>
<td>3</td>
<td>9.1</td>
<td>JIS Z 0208</td>
</tr>
<tr>
<td>Surface Resistivity</td>
<td>Ω/□</td>
<td>10¹⁰</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td>Anti-static</td>
<td>General nylon &amp; polyethylene</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

These are not guarantee value.
Size: Thickness 0.1mm – Width 150mm-700mm
We may not be able to manufacture your size by a combination of thickness and width.

Cera-PET  Transparent, moisture vapor barrier and anti-static bags

<Features>
It is a dampproofing gas barrier film by ceramic vacuum evaporation without using aluminum foil and a vinylidene chloride.

Stable resistance value is effective in using tree STAT-3S for the most inner layer semipermanently.

Layer
S-type
Anti-static coating, ceramic vacuum evaporation PET 12μ /PE 25μ /STAT-3S 50μ
B-type
Anti-static coating, ceramic vacuum evaporation PET 12μ /ONY 15μ /PE 20μ/STAT-3S 50μ

* Normal:3 direction seals
* Z bag and zipper bags are also available

ST-678 ESD Shielding and moisture vapor barrier bags

For moisture vapor, gas barrier film of anti-satac

<Features>
Hi-quality moisture and gas barrier film
Using reliable STAT-3S for the most inner layer
Tough and strength film

Layer
Anti-static coating NY(Nylon15μ/PE15μ/AL7μ/PE15μ/STAT-3350μ)

* Normal:3 direction seals
* Z bag and zipper bags are also available

ST-620 Barrier Electrostatic discharge shielding

<Features>
1. Because of using the STAT-3S as the innermost layer, the stable resistance value will continue.
2. This metallic shielding bags are mainly designed for transporting electronic parts such as semiconductors and assemblies.
3. Metal shieldbacks are primarily designed for the transport of electronic components such as semiconductors and assemblies.

Layer
AS thin film VM-PET / STAT-3S
12μ 50μ Total:62μ

* Flat bag will be 3way 10 mm seal.
**Anti-Static film (An antistatic agent type)**

*Features*
- Versatility & low-priced Anti-Static bag.
- Surface resistance value: less than $10^7 \Omega$
- Thickness: 40µ - 150µ Width: 50mm - 1200mm
- (Special order from 1000m is available.)

Z袋 and corner bottom bag are also available.

**STAT-A Standard Film (Blue)**

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Width</th>
<th>Length</th>
<th>Qty./1cs</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td>1200mm</td>
<td>200M</td>
<td>2</td>
</tr>
</tbody>
</table>

The size except the above becomes the build-to-order manufacturing.

**STAT-B (Static electricity dispersed film: Hi carbon black contents)**

*Features*
- Various strength and hi-quality surface resistance film. (Conductive film)
- Surface resistance value is less than 10.4 Ω.

**Zerust ESD Shield** Anti-Static & Oxidization prevention

No. 3356376 patent

*Features*
- Anti-static and prevention of rust film that is joint development of "Taiyo Petroleum Gas Co., Ltd" and "Techno Stat Co., Ltd". (No. 3356376 patent)

**Standard bags (mm)**

<table>
<thead>
<tr>
<th>No.</th>
<th>Thickness</th>
<th>Width</th>
<th>Length</th>
<th>Qty./1cs</th>
</tr>
</thead>
<tbody>
<tr>
<td>HZ-4</td>
<td>0.07</td>
<td>100</td>
<td>200</td>
<td>3000</td>
</tr>
<tr>
<td>HZ-6</td>
<td>0.07</td>
<td>150</td>
<td>250</td>
<td>2000</td>
</tr>
<tr>
<td>HZ-8</td>
<td>0.07</td>
<td>200</td>
<td>350</td>
<td>2000</td>
</tr>
<tr>
<td>HZ-14</td>
<td>0.07</td>
<td>350</td>
<td>500</td>
<td>1000</td>
</tr>
<tr>
<td>HZ-18</td>
<td>0.07</td>
<td>450</td>
<td>600</td>
<td>500</td>
</tr>
</tbody>
</table>

* A film may perform xanthosis under the influence of rust preventing agent, but does not influence prevention of static charge, a prevention of rust effect.
* We are able to manufacture bag, seats and tubes of the hope except the standard size mentioned above.
* We may not be able to manufacture your size by a combination of thickness and width.

**STAT-3SF Transparent Anti-Static file holder**

*Features*
- STAT-35 PP film
  1. This holder does not "Breed Out" because of using Additive-Free Antistatic film (STAT-35).
  2. There is not dependence of the humidity, and it is stable of the electric characteristic.
  3. Transparent and Strong film.

<table>
<thead>
<tr>
<th>A 4 Size</th>
<th>A 3 Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>220 x 311mm</td>
<td>210 x 313mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Antistatic indication label</th>
<th>Foil-stamp antistatic indication</th>
<th>Company name indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT-35PP</td>
<td>STAT-35PP</td>
<td>350 µ</td>
</tr>
</tbody>
</table>

* We accept the special order size.

**Others**

Electrostatic electric discharge control, conductive mat
Biodegradability bag : Green Star

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4F 2-25 Naka-cho Omiya-ku Saitama-shi Saitama
TEL: 81+48-650-0007 / FAX: 81+48-650-0038
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