



Dongguan Baoxu Chemical Technology, Ltd.

P:+86-0769-22821082 Fax:0769-22821083

Email:info@additivesforpolymer.com Web:www.additivesforpolymer.com

8th Chenwu East Road, Houjie Town, Dongguan City, Guangdong Province, China

## Permanent antistatic agent

### Mechanism of permanent antistatic agent

Generate a conductive network during compounding/processing then discharge through the pathway.

### Types & features of antistatic agents

type	migratory additives	permanent antistatic	conductive carbon black/nanotube
surface resistivity level	Antidust to ESD	Antidust to ESD	Conductive
humidity dependent	Yes	No	No
typical dosage	0.2-2%	7-20%	3-10%
resistance level range	$10^9$ - $10^{12}$	$10^8$ - $10^{14}$	$10^4$ - $10^5$
advantages	<ul style="list-style-type: none"><li>• Low dosage</li></ul>	<ul style="list-style-type: none"><li>• No bleed-out, No polluting</li><li>• Perform immediately &amp; long lasting</li></ul>	<ul style="list-style-type: none"><li>• Best performance</li><li>• Lower cost compared with permanent antistatic</li></ul>
drawback	<ul style="list-style-type: none"><li>• Bleed-out</li><li>• Performance loss by washing</li><li>• Short term effective</li></ul>	<ul style="list-style-type: none"><li>• Higher dosage &amp; costs</li></ul>	<ul style="list-style-type: none"><li>• Negative impact on mechanical,</li><li>• Black color only</li></ul>

### baoxu permanent antistatic agent products

Item	BX ATA PA100	BX ATA PA200
Form	Solid, without carrier	Solid, without carrier
Color	White to Light yellow color	White to Light yellow color
Melting Point °C	> 90	> 100
Surface resistivity (25 °C, 50%R.H.) [ohms/sq.]	$10^7$	$10^6$
Application	Polyolefin, PP, PE, TPO, HDPE	Engineering Plastics, PA, PET/PBT, POM,ABS,

The information and statement herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility, Users should undertake sufficient verification and testing to determine the suitable for their own particular purpose of any information or products referred to herein. No warranty of fitness for a particular purpose is made.



Dongguan Baoxu Chemical Technology, Ltd.

P:+86-0769-22821082 Fax:0769-22821083

Email:info@additivesforpolymer.com Web:www.additivesforpolymer.com

8th Chenwu East Road, Houjie Town, Dongguan City, Guangdong Province, China

		ASA, HIPS, PC/ABS alloy.
--	--	--------------------------

### Features of permanent antistatic additive

- No migrating side effects.
- for both anti-dust and static dissipative applications.
- maintain mechanical properties of the polymer.
- easy processed by extrusion or injection process.
- odorless
- light color.
- halogen-free.
- long-lasting performance

### Typical application data

#### BX ATA PA100 performance in PP

Polypropylene	PA100	surface resistivity [ $\Omega$ /sq.]
95	5	$10^{13}$ - $10^{14}$
90	10	$10^{12}$ - $10^{13}$
85	15	$10^{12}$
80	20	$10^{11}$

Processing condition: Extrusion @230°C, Injection@230°C

#### BX ATA PA200 performance in PC/ABS

PC/ABS=7/3	PA200	surface resistivity [ $\Omega$ /sq.]
95	5	$10^{13}$ - $10^{14}$
90	10	$10^{11}$
85	15	$10^{10}$
80	20	$10^9$

Processing condition: Extrusion @250-260°C, Injection@250-260°C

The information and statement herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility, Users should undertake sufficient verification and testing to determine the suitable for their own particular purpose of any information or products referred to herein. No warranty of fitness for a particular purpose is made.



Dongguan Baoxu Chemical Technology.,Ltd.

P:+86-0769-22821082 Fax:0769-22821083

Email:info@additivesforpolymer.com Web:www.additivesforpolymer.com

8th Chenwu East Road, Houjie Town, Dongguan City, Guangdong Province, China

---

## **Dosage**

7-15% based on polymer and applications.

## **Handling**

- Baoxu permanent antistatic agent product is very hygroscopic substance that is dried before shipping. Store under cool and dry conditions. After opening, use immediately.
- Keep closed when not in use. In case of that, this product absorbs moisture, drying at 70-80 °C for 3h under a vacuum is required before use.

---

The information and statement herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility, Users should undertake sufficient verification and testing to determine the suitable for their own particular purpose of any information or products referred to herein. No warranty of fitness for a particular purpose is made.