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**TECHNICAL DATA SHEET / SPECIFICATIONS**  
**ANTISTATIC MASTERBATCH PT-3002**

**INTRODUCTION**

Polyfill's Antistatic Masterbatch-PT3002 is a surface property modifier, which now-a-days finds extensive use by Plastics Processor, to reduce and control the static charges developed on the surface of plastic parts having large surfaces like film, fibres etc as spark discharge formed by static charges can produce serious accidents. Plastics, particularly sensitive to static build up Polyolefins, Nylon, Polyesters, Urethanes, Cellulosics, Acrylics etc.

Antistatic Masterbatch-PT3002 is based on Ethoxy Amine, using LLDPE as a carrier resin, compounded in most modern extrusion equipment, using state of art technology.

**MAIN FEATURES**

PT 3002 Antistatic Masterbatch, an internal antistatic agent acts in two ways :

- Builds up conductive path to bring charged particles into contact.
- As a lubricant or mould- release agent in the post extrusion process.

PT3002 is incorporated into the polymer during the extrusion process. Upon extrusion, the additive Masterbatch migrates to the surface of the film because of its definite incompatibility with the polymer. Then it builds up a uniform layer on the film / product surface and prevents the building up of static electricity. It also reduces surface resistivity by migrating to the surface and absorbing moisture from the air.

Using Antistatic Masterbatch PT3002 will reduce or even eliminate the problems caused by high surface resistivity. These problems include :

- Increase handling problems during transport, storage and packing.
- Dust contamination, affecting both, appearance and performance of end products.
- Risk of electrical shocks to employees working at the machines.
- Risk of electrical discharge causing fire or explosion.

**SPECIFICATIONS**

<b>Appearance</b>	<b>Clear Granuels</b>
<b>% ANTISTATIC (active ingredient)</b>	<b>10 %</b>
<b>Loose Bulk Density</b>	<b>0.55 ~ 0.60 gms/cm<sup>3</sup></b>
<b>Inorganic Additives</b>	<b>3 %</b>
<b>Carrier Resin</b>	<b>LD / LLDPE – 87 %</b>

## **APPLICATIONS**

ANTISTATIC MASTERBATCH is widely used in the following applications -

- Polyolefins (HDPE, HMHDPE, PP, LLDPE, LDPE) packaging commodities such as films, wrapping sheets etc.
- Plastic packaging for explosives.
- PVC decorating film for furnitures.
- Plastic conveyor belts in mines.
- Electronic switches.
- Plastic flooring in operating rooms to prevent spark discharge during machinery operation.

## **USAGE**

0.5 ~ 2% depending upon the specific end usage applications and the thickness of the finished products.

## **PACKING & STORAGE**

ANTISTATIC Masterbatch is available in the packing of 25 kgs. laminated moisture proof woven sack bag. Keep the product in cool & dry place with good ventilation. Away from the direct sunlight, high temperature, rain pour and not under heavy loads. Shelf life of Masterbatch is about 15 months from the manufacturing date. Thereafter still it can be used, but with little higher dosage %ge than usual.

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