

ANTI-STATIC ADDITIVE

Q.1) What is the composition of Anti-Static Additive?

- **Anti-Static Additive** is composed of **highly hydroscopic organic molecules**.

Q.2) What is the Mechanism of Action?

- **Anti-Static Additive** makes the surface hydrophilic which does not allow the static charge formation on the polymer surface.

Q.3) Is there any product available in the market?

- There is no such product. The conventional products reduce the surface resistivity and allow dissipation of the charge generated.
- Cotton is highest on tribo electric series and does not generate static charges in any season in any part of the country. Cotton is also used as an insulator for electrical application. The major difference between cotton & synthetic textiles that generate and accumulate the electrical charges is the adsorbed moisture on the surface. We have tried to mimic the cotton surface to prevent surface charges from generation. Thus, the surface conductivity of the treated plastic is unaffected.

Q.4) Method of Use

- The recommended addition of **Anti-Static Additive** is **20 %** for master batch in LLDPE, PS, PBT or other polymers.
- The recommended addition of this master batch is up to **4-5%** in the final product.

Q.5) Can additive addition in the product change its basic properties?

- It will not change the basic properties of the product.

Q.6) What is the shelf life of Anti-Static Additive?

- Anti-Static Additive has two years of shelf life from the date of manufacture under dray condition of storage at R.T.