TOPDA
泰普达新材料

Fuzhou Topda New Material Co., Ltd

福州泰普达新材料有限公司

Organic Fluorine Electret Powder

Organic Fluorine Electret Masterbatch

Modified Polypropylene

Electret is the necessary guarantee of the efficiency of the mask filtration. If the proper electret is not used, the static electricity on the melt blown cloth is easy to escape. If the electrode is not applied, the mask may meet the N95 standard when it is newly made, but the filtering efficiency will become very low in a few months.

Electret materials are widely used in the field of high efficiency and low resistance air filter materials. Electret filtering materials require high density of stored charge, long life and high stability. The raw materials used as electrets need excellent dielectric properties, such as high volume resistance and surface resistance, high dielectric breakdown strength, low moisture absorption and air permeability.

Organic Fluorine Electret Powder

Organic Fluorine Electret Powder has a very high electrostatic capacity, the micropores distribution is uniform, it can increase the electrostatic adsorption capacity of PP, and it can effectively extend the aging of charge storage for one year, it is suitable for the production of melt blown cloth with filtering efficiency of 95 or 99.

Feature:

- Long lasting antistatic
- Micropores are uniformly distributed
- Improving the filtering efficiency

Product Code	Average Particle Size (D50), μm	Bulk Density, g/L	Applications	Suggested Dosage Level, %
TPD-53	~1	300-500	Used to produce Electret Masterbatch or Meltblown Cloth with filtration efficiency of 95% or 99%.	Melt blown cloth: 0.1-0.3%. Electret Masterbatch: 5-10%.

Organic Fluorine Electret Masterbatch

Organic Fluorine Electret Masterbatch is based on polypropylene resin with ultra-high melt index, which can effectively improve the short-term storage capacity of melt blown PP nonwovens, and greatly improve the long-term stability of electrostatic charge after electret.

Feature:

- Good persistence and can keep the filtration efficiency of the filter material for a long time.
- It is easy to form interface charge between organic fluorine and polypropylene matrix fiber, which can effectively improve the electrostatic capacity of the fiber.
- It can be applied to many kinds of polarization technologies such as thermal polarization and corona polarization.

Product Code	Melt Index	Applications	Suggested Dosage Level, %
TPD-532	＞700	Used for the production of melt blown cloth with a filtration efficiency of 95 or 99.	3-5%.
TPD-533	＞300	It can effectively improve the filtration rate of oily particles such as DOP/ DEHS/PAO, etc.	3-5%.

Modified Polypropylene

TPD-1500 is a modified polypropylene specially used in the melt blown cloth industry, which contains electret powder. It can greatly improve the long-term stability of electrostatic charge after electret, lock the electric charge for more than 15 months, and the filtering efficiency of the melt blown cloth produced by TPD-1500 for oily particles can also reach more than 96%.

Feature:

- Good electrostatic durability and can keep the filtering efficiency of the filter material
- for a long time.
- Evenly mixed.
- Good flexibility, soft hand feeling of melt blown cloth, and is conducive to high-density mesh forming.
- Low peroxide residue and small odor.

Product Code	Melt Index	Applications
TPD-1500	1600-1800	Can be used in all kinds of melt blown production lines without adding any electret materials.