

## Anti-blocking Agent Masterbatch

### Introduction

Blocking is the adhesion or bonding of two surfaces of film that occurs after production and/or during storage. Polymer film layers tend to stick together.

Anti-blocking masterbatches containing synthetic inorganic anti-blocking agent can be added to film to minimize this adhesion and so lower the blocking force between film layers. These additives create a micro-rough surface which reduces the adhesion between film layers and lowers the blocking tendency.

### Product Benefits

- High anti-blocking efficiency
- Excellent optical properties
- Excellent dispersion on films
- Improve printability

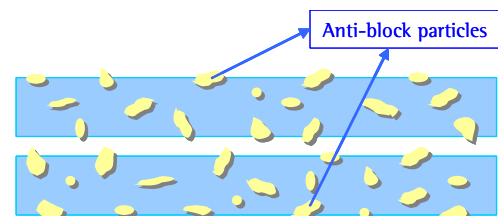


Figure: Anti-blocking particles randomly dispersed in film layers

Anti-blocking masterbatch containing synthetic amorphous silica is used in high quality films and as it has a refractive index close to that of polyolefin resins it is possible to produce films with high transparency and clarity with maintaining high film gloss.

### Applications

- Biaxially Oriented PP film
- Polyolefin Casting and Blown films

### Composition

- Additive: Synthetic Amorphous Silica
- Carrier Resins: Polypropylene / Polyolefin resins

### Recommended Dosage Rate

- Up to 10 wt%

Because processability and quality of applications are depended on processing conditions (temperature, pressure, speed, etc.) and applied resins, the optimum dosage rate must be determined by pre-test.