



# MULTIBASE™ MB25-235

## Silicone Masterbatch

DuPont MULTIBASE™ MB25-235 Masterbatch is a pelletized formulation containing 25% of an ultra-high molecular weight (UHMW) siloxane polymer dispersed in low density polyethylene (LDPE).

It is designed to be used as an additive in polyethylene compatible systems to impart benefits such as processing improvements (Form-fill-seal (FFS) bagging process) and modification of surface characteristics (Low coefficient of friction (COF)). High-speed, high-volume FFS packaging operations place stresses on LDPE film, including increased levels of surface friction. Reducing COF is critical to seamless throughput, high productivity and consistent quality.

DuPont MULTIBASE™ MB25-235 Masterbatch provides exceptional slip performance while overcoming the drawbacks of organics – and controlling costs. Traditional organic slip additives, including erucamide and oleamide, rapidly migrate to the film surface and dissipate in a short period of time. Because they migrate so easily, they can transfer between film surfaces during rolling and storage, from one film layer to another and from film to package contents, increasing the risk of food contamination. They also lose effectiveness under elevated temperatures, such as exposure to hot foods.

### Applications

Additive in polyethylene compatible systems.

### Benefits

DuPont MULTIBASE™ MB25-235 Masterbatch eliminates these issues by retaining excellent COF reduction values for an extended period (for instance for long-time storage before using) far surpassing any other technology on the market today. This formulation also prevents migration of the slip additive between film layers.

### Advantages

- Reduces friction to enable higher throughput and productivity in FFS packaging
- Delivers long-lasting stability to maintain slip performance over time and temperature
- Avoids quality issues by preventing migration of slip additive between film layers or into package contents
- Optimizes processing with smooth dosing and homogeneous dispersion
- Controls costs with lower loadings and use in only the outer layer of multi-layer film

### Product information

Colour	White	
Polydimethylsiloxane content	25 %	PhEur 1470

### Other properties

Density	926 kg/m <sup>3</sup>	ISO 1183
Recommended use level	2 - 5 %	



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### Storage and stability

Shelf life

48 months

### Characteristics

Compatibility

Polyolefins

### Additional information

How to use

DuPont MB Series Masterbatches may be processed in the same way as the thermoplastics on which they are based.

Sufficient DuPont MB25-235 Masterbatch should be blended with virgin polymer pellets to give the desired siloxane level in the final product.

DuPont MB25-235 Masterbatch pellets can be added during compounding in a single screw extruder or added at the feed hopper during extrusion blown film process or injection molding

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