



# MULTIBASE™ BY27-009

## Silicone Masterbatch

DuPont MULTIBASE™ BY27-009 Masterbatch is a pelletized formulation containing 50% of an ultra-high molecular weight (UHMW) siloxane polymer.

It is designed to be used as additive in Polybutylene Terephthalate (PBT) systems to impart benefits such as processing improvements and modification of surface characteristics. Liquid siloxane plastic additives have been used for several years to improve the lubricity and flow of thermoplastics. They are effective in this role, although until now some difficulties have been experienced in the incorporation of liquids into thermoplastic melts without use of specialized equipment. It has also been difficult to produce masterbatches with greater than 20% liquid siloxane because of processing difficulty and bleed problems.

The DuPont MULTIBASE™ MB Series Masterbatches address these problems by supplying a high concentration of an ultra-high molecular weight (UHMW) siloxane as dispersion in a dry pellet form in a variety of thermoplastics.

### Applications

Additive in Polybutylene Terephthalate (PBT) compatible systems.

### Benefits

The DuPont MB Series Masterbatches are expected to give improved benefits compared to conventional lower molecular weight siloxane additives, e.g., less screw slippage, improved release, a lower coefficient of friction, fewer paint and printing problems, and a broader range of performance capabilities.

### Product information

Color	White	
Polydimethylsiloxane content	50 %	PhEur 1470

### Other properties

Recommended use level	0.2 - 5 %
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### Storage and stability

Shelf life	48 months
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### Characteristics

Additives	Release agent
Compatibility	Polyesters



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### 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 Multibase Silicone Masterbatch should be blended with virgin polymer pellets to give the desired siloxane level in the final product. DuPont Multibase Silicone Masterbatch pellets can be added during compounding in a single screw extruder or added at the feed hopper during injection molding or extrusion.

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