



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 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

Color	White	
Polydimethylsiloxane content	25 %	PhEur 1470

Other properties

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



MULTIBASE™ MB25-235

Silicone Masterbatch

Storage and stability

Shelf life

48 months

Characteristics

Compatibility

Polyolefins

Food contact

FDA 21 CFR

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

The information set forth herein is furnished free of charge, is based on technical data that DuPont believes to be reliable, and represents typical values that fall within the normal range of properties. This information relates only to the specific material designated and may not be valid for such material used in combination with other materials or in other processes. It is intended for use by persons having technical skill, at their own discretion and risk. This information should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards and comply with applicable law. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

CAUTION: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract or other acknowledgement that is consistent with the DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative.

DuPont's sole warranty is that our products will meet our standard sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DUPONT SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR NON-INFRINGEMENT. DUPONT DISCLAIMS LIABILITY FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.