



MULTIBASE™ MB50-320

Silicone Masterbatch

DuPont MULTIBASE™ MB50-320 Masterbatch is a pelletized formulation containing 50% of a functionalized ultra-high molecular weight siloxane polymer.

It is designed to be used as additive in resin compatible systems to improve processing. Silicone-based plastic additives have been used in the plastics industry for several years to improve the mold release and flow of thermoplastics. They are effective in this role, although until now some difficulties have been experienced in the accurate incorporation of low-viscosity liquids into thermoplastic melts without use of specialized equipment.

The DuPont MULTIBASE™ MB Series Masterbatches address these problems by supplying a high concentration of an ultra-high molecular weight (UHMW) siloxane as a dispersion in a dry pellet form in a variety of thermoplastics. The functionalized siloxane has unique advantages over standard polydimethylsiloxane (PDMS). The functional groups provide an attraction of the siloxane molecule to the metal surface during processing.

Applications

An additive typically used in ethylene vinyl acetate compatible systems.

Benefits

- Imparts processing improvements
- Better mold fill and release
- Lower extruder torque
- Enhanced lubricity

Product information

Color	White -	
Polydimethylsiloxane content	50 %	PhEur 1470

Other properties

Recommended use level	0.2 - 5 %
-----------------------	-----------

Storage and stability

Shelf life	48 months
------------	-----------

Characteristics

Additives	Release agent
Compatibility	Acrylic Polymers



MULTIBASE™ MB50-320

Silicone Masterbatch

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 MB50-320 Masterbatch should be blended with virgin polymer pellets to give the desired Siloxane leveling the final product.

DuPont MB50-320 Masterbatch pellets can be added during compounding in a single screw extruder or added at the feed hopper during the injection molding or extrusion.

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.