

MB50-012

Silicone Masterbatch

DuPont MB50-012 Masterbatch is a pelletized formulation containing 50 % of an ultra-high molecular weight (UHMW) siloxane polymer dispersed in PET.

It is designed to be used as an additive in PET compatible 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 some difficulties have been experienced in the incorporation of liquids into thermoplastic melts without the 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 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 to be used in PET compatible systems

Benefits

When added to PET or similar thermoplastics at 0.3% to 4.0%, improved processing and flow of the resin is expected, including better mold filling, less extruder torque, internal lubrication, mold release and faster throughput. At higher addition levels, 2% to 5%, improved surface properties are expected, including lubricity, slip, lower coefficient of friction, and greater mar and abrasion resistance. 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

Colour	White -	
Polydimethylsiloxane content	50 %	PhEur 1470

レオロジー特性.

固有粘度	0.84	ISO 307, 1157, 1628
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その他の特性

Recommended use level	0.3 - 5 %
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成形条件

乾燥の必要性	yes
乾燥温度	248 °F
乾燥時間、除湿乾燥機	4 - 6 h

Storage and stability

Shelf life	48 months
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Characteristic

添加剤	離型剤
Compatibility	Polyesters

Additional Information

How to use	DuPont MASTERBATCHES are designed to be processed in the same way as the thermoplastic carrier on which they are based. Masterbatch pellets can be compounded in or added by using a feed hopper during injection molding or extrusion.
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