



MULTIBASE™ MB50-020 (DEVELOPMENTAL)

Silicone Masterbatch

DuPont MULTIBASE™ MB50-020 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

Colour	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	Acrylic Polymers



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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 MB50-020 Masterbatch should be blended with virgin polymer pellets to give the desired Siloxane leveling the final product.

DuPont MB50-020 Masterbatch pellets can be added during compounding in a single screw extruder or added at the feed hopper during the injection molding or extrusion.

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The above data are for the developmental sample and are subject to change as the product is scaled up.

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