

DOW CORNING® MB50-320 Masterbatch

FEATURES

- Imparts processing improvements and modified surface characteristics

BENEFITS

- Better mold fill and release
- Lower extruder torque
- Enhanced lubricity
- Lower coefficient of friction

COMPOSITION

- Free flowing solid pellets

Ultra-high molecular weight functionalized siloxane polymer dispersed in ethylene vinyl acetate.

APPLICATIONS

- An additive typically used in ethylene vinyl acetate compatible systems.

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Multibase sales office or your Global Multibase Connection before writing specifications on this product.

Test	Property	Unit	Result
	Appearance		Off-white pellets
	Siloxane Content	%	50
	Organic resin		EVA
	Suggested use level	%	0.2 to 5.0

DESCRIPTION

DOW CORNING 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 and modify surface characteristics.

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 DOW CORNING 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. This allows for processing aid advantages as well as surface property modification, i.e., lower coefficient of friction.

HOW TO USE

DOW CORNING MB Series Masterbatches may be processed in the same way as the thermoplastics on which they are based. Sufficient DOW CORNING MB50-320 Masterbatch should be blended with virgin polymer pellets to give the desired Siloxane leveling the final product. DOW CORNING 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.

HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEETS IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

USABLE LIFE AND STORAGE

When stored at or below 35 degrees C (95 degrees F) in the original unopened containers DOW CORNING MB50-320 Masterbatch has a usable life of 48 months from the date of production.

PACKAGING INFORMATION

This product is available in a variety of container sizes. Contact your local Multibase sales representative for information about container sizes available in your area.

HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Multibase has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Multibase representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our

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