Siloxane Masterbatch MB25-501

Siloxane Polymer (UHMW)

Multibase, A Dow Corning Company

Message:

Additives to improve processing and modify surface characteristics in resin-compatable systems.

Dow Corning® Functionalized High Molecular Weight Siloxane Masterbatches are pelletized formulations containing 25 percent of a functionalized high-molecular-weight siloxane polymer. They are designed to be used as additives 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 some difficulties have been experienced in the accurate incorporation of low-viscosity liquids into thermoplastic melts without use of specialized equipment. The Dow Corning Functionalized High Molecular Weight Siloxane Masterbatches address this problem by supplying a high-molecular-weight siloxane as a dispersion in a dry pellet form in a variety of thermoplastics. The siloxane is finely dispersed in the thermoplastic matrix as the discrete or discontinuous phase at an average particle size of less than 5 microns. The functionalized siloxane has unique advantages over standard polydimethylsiloxane. 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. BENEFITS

When added to resin-compatible systems at 0.1 to 1 percent siloxane, improved processing and flow of the resin are expected, including better mold filling, less extruder torque, internal lubrication and mold release. At higher siloxane loading levels, 1 to 5 percent siloxane, enhanced surface properties are expected, including lubricity, slip and lower coefficient of friction.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. HOW TO USE

Dow Corning Functionalized High Molecular Weight Siloxane Masterbatches may be processed at the same conditions as the thermoplastics on which they are based. Sufficient Dow Corning Functionalized High Molecular Weight Siloxane Masterbatch should be blended with virgin polymer pellets to give the desired siloxane level in the final product. Dow Corning Functionalized High Molecular Weight Siloxane Masterbatch can be added during compounding in an extruder or dry blended at the feed hopper during injection molding, profile/sheet extrusion or other conventional thermoplastic processes.

General Information	
Additive	Silicone lubricant
	demoulding
	slip agent
Features	Ultra high molecular weight
	smoothness
	Workability, good
	Good liquidity
	Lubrication
	Compliance of Food Exposure
	Good demoulding performance
	Excellent appearance
Uses	Composite
	Mixing
Agency Ratings	FDA 21 CFR 177.1520
Appearance	White-like

Forms

Particle

Processing Method

Composite Sheet extrusion molding Profile extrusion molding Injection molding

Additional Information

Siloxane Content: 25%Organic Resin: Polypropylene, MI 12Suggested Use Level, (0.1 to 5% siloxane): 0.4 to 20%

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