



Dow Corning® MB 50-313 Masterbatch

Dow Corning Corporation - Slip Agent / Lubricant / Mold Release / Processing Aid Masterbatch

Sunday, November 3, 2019

General Information

Product Description

Dow Corning® MB50-313 Masterbatch is a pelletized formulation containing 50% of a functionalized ultra-high molecular weight (UHMW) 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 siloxane is finely dispersed in the thermoplastic matrix as the discrete or discontinuous phase at an average particle size of less than 5 microns.

APPLICATIONS

- Additive in polyethylene compatible systems.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Agency Ratings	• FDA 21 CFR 177.1520	• FDA 21 CFR 177.1520(c)	• FDA 21 CFR 181.28

ASTM & ISO Properties ¹

Additives General	Nominal Value	Unit
Additives Category	Masterbatch -- Slip Agent / Lubricant / Mold Release / Processing Aid -- Silicone-based	
Carrier Resin	Polyethylene or ethylene-olefin copolymer (PE)	
Recommended for Use In	Polyethylene or ethylene-olefin copolymer (PE)	
Forms	Pellets / Granules	
NFPA 704 Safety Rating		
1	Flammability	
0	• Health • Reactivity	
Additives Physical	Nominal Value	Unit
Density	0.938	g/cm ³
Additive Concentration	50	%
State at Room Temperature	Solid	
Chemical Description	Siloxane	

Notes

¹ Typical properties: these are not to be construed as specifications.