

# Dow Corning® Brand Masterbatch Additives

Dow Corning Siloxane Masterbatch additives can benefit production of plastic materials and improve the performance of finished components.

## In the Extruder and Mold

- Improved processing and flow
- Better mold-filling
- Mold release
- Reduced extruder torque
- Faster throughput
- Internal lubrication
- Improved dispersion of fillers
- Reduced energy demand

## In the Finished Component

- Scratch resistance, particularly for talc-filled polyolefin compounds
- Improved surface properties (lubricity, slip, lower coefficient of friction, silky feeling)
- Greater abrasion and mar resistance
- Reduced warping of molded components
- Other benefits, depending on formulation



Multibase, a Dow Corning company, has the compounding expertise to engineer plastics' properties beyond its historic limitations using silicone.



**ACHIEVE GREATER DESIGN FREEDOM** and productivity in plastics manufacturing with the benefits of silicone from Dow Corning, the leading pioneer in silicone development.

## One Additive, Many Benefits

Dow Corning Si-based masterbatch additives contain high or ultra-high molecular weight siloxane, pre-dispersed in a range of polymer carriers and specially engineered to deliver multiple benefits for greater design freedom and production efficiencies.

These easy-to-use pellets enable processing improvements for both the compound manufacturer and processor. They can also extend material properties of both thermoplastic compound and finished components, depending on the masterbatch additive formulation and application requirements. All masterbatch additives are also FDA compliant.

## High Compatibility

Our broad portfolio of masterbatch additives means there is a multi-benefit solution for most polymer compounds.

Dow Corning masterbatch additives can help you:



### EXTEND

Create higher-performing thermoplastic compounds and components by extending surface aesthetics and physical properties like coefficient of friction.



### ENHANCE

Increase throughput and productivity in the extruder and the mold, while reducing energy demand and helping improve dispersion of pigments and other additives.



### REINFORCE




Because silicone migrates to the interface between filler and polymer matrix, it can help reinforce mechanical properties. Silicone often aids dispersion, compatibility, hydrophobicity, grafting and crosslinking.



## Product Samples

To see what silicone-based additive technology from Dow Corning can do for you, request a complimentary sample at [dowcorning.com/sampleSiMB](http://dowcorning.com/sampleSiMB).

## Dow Corning Masterbatch Additives Range for Thermoplastic Compounds

Products*	 Extend	 Enhance	 Reinforce	Polymer Phase	Compatibility	Siloxane Concentration
<b>Ultra-High Molecular Weight PDMS</b>						
MB50-001	■	■		PPH	PP, PE, TPO, TPE, TPV	50
MB50-001 G2	■	■		PPH	PP, PE, TPO, TPE, TPV	50
HMB-0221	■	■		PPH	PP, PE, TPO, TPE, TPV	Proprietary
MB50-002	■	■		LDPE	PA, PP, PE, TPO, TPE, TPV	50
MB50-004	■	■		HIPS	PS, HIPS, ABS, SAN	50
MB50-007	■	■		ABS	PS, HIPS, ABS, PC-ABS, SAN	50
MB50-008	■	■		SAN	PS, HIPS, ABS, PC-ABS, SAN, PVC	50
MB50-011	■	■		PA6	PA	50
MB50-012	■	■		PET	Polyester	50
HMB-1103	■	■		EMA	POM, PA, PET, PBT, PP, PE, PVC	Proprietary
MB40-006	■	■		POM	POM	40
MB50-010	■	■		COPE	Polyester	50
MB50-017	■	■		TPU	TPU	50
<b>Ultra-High Molecular Weight Functionalized PDMS</b>						
MB25-301	■	■	■	PPH	PP, PE, TPO, TPE, TPV	25
MB50-321	■	■	■	PPH	PP, PE, TPO, TPE, TPV	50
MB25-381	■	■	■	Terpolymer	PP, PE, TPO, TPE, TPV	25
MB25-302	■	■	■	LDPE	PP, PE, TPO, TPE, TPV	25
MB50-313	■	■	■	LLDPE	PP, PE, TPO, TPE, TPV	50
MB50-314	■	■	■	HDPE	PP, PE, TPO, TPE, TPV	50
MB50-320	■	■	■	EVA	EVA, PVC	50
MB50-315	■	■	■	PC	PC, PC-BLEND	50
<b>Ultra-High Molecular Weight PDMS Plus Silica Reinforcement</b>						
MB50-801	■	■		PPH	PP, PE, TPO, TPE, TPV	50
MB50-802	■	■		LDPE	PA, PP, PE, TPO, TPE, TPV	50
MB50-804	■	■		HIPS	PS, HIPS, ABS, PC-ABS, SAN	50
MB50-807	■	■		ABS	PS, HIPS, ABS, PC-ABS, SAN	50
MB50-811	■	■		PA6	PA	50
<b>High Molecular Weight PDMS</b>						
MB25-501	■	■		PPH	PP, PE, TPO, TPE, TPV	25
MB25-502	■	■		LDPE	PA, PP, PE, TPO, TPE, TPV	25
MB25-504	■	■		HIPS	PS, ABS, PC-ABS, SAN	25
MB25-511	■	■		PA6	PA	25
<b>Low Molecular Weight (LMW) Siloxane</b>						
MB20-736	■	■		POM	POM	20

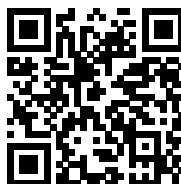
\* Dow Corning® brand products

## Learn More

For more information about Dow Corning's wide range of solutions for thermoplastic compounds, email [plastics@dowcorning.com](mailto:plastics@dowcorning.com) or visit [dowcorning.com/plascomp](http://dowcorning.com/plascomp).

Silicone-based additives are available from Dow Corning or through authorized distributors.

Masterbatch additives are available in dry, free-flowing pellets and are packaged in 2kg pails, 25kg bags (except MB50-320, which is a 20kg bag), and 400kg boxes.



Images: AV23857, AV24440

### 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 products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

Dow Corning is a registered trademark of Dow Corning Corporation.  
We help you invent the future is a trademark of Dow Corning Corporation.

©2016 Dow Corning Corporation. All rights reserved.

AMPM016-16

Form No. 69-1048-01

**DOW CORNING**

*We help you invent the future.™*