



Dow Corning® brand Plastics and Rubber Solutions

Dow Corning® Siloxane Masterbatch Additives

One Additive, Many Benefits

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

In the Extruder and Mold

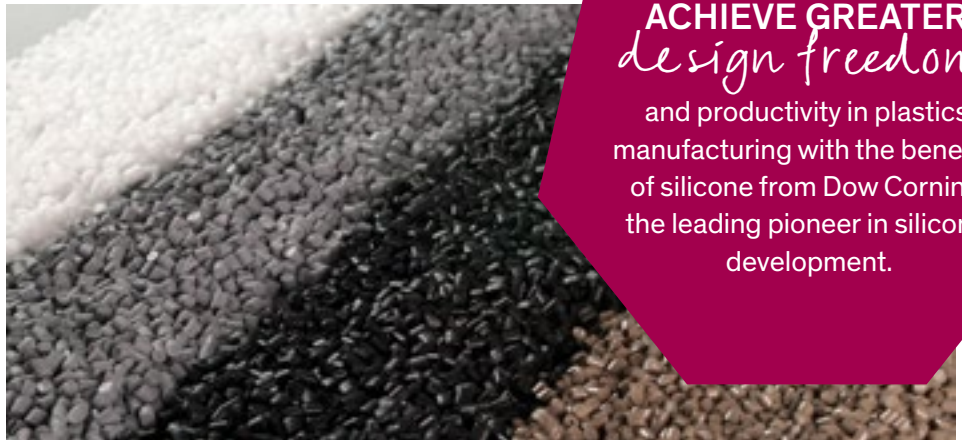
- Improved processing and flow
- Better mold-filling
- Mold release
- Reduced extruder torque
- Faster throughput
- Internal lubrication
- Improved dispersion of fillers
- Reduced energy demand

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 subsidiary of The Dow Chemical Company, has the specialty compounding expertise to engineer plastics' properties beyond its historic limitations using silicone. Multibase helps us to leverage the combination of compounding expertise and Si chemistry.



ACHIEVE GREATER
design freedom

and productivity in plastics manufacturing with the benefits of silicone from Dow Corning, the leading pioneer in silicone development.

Dow Corning® masterbatch additives contain high or ultra-high molecular weight siloxane, pre-dispersed and/or reacted 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:



PROCESSING

ENHANCE

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



MATERIALS

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.






PROPERTIES

EXTEND

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

Dow Corning® Masterbatch Additives Product Range for Thermoplastic Compounds

Products*	 Extend	 Enhance	 Reinforce	Polymer Phase	Compatibility	Siloxane Concentration
Ultra-High Molecular Weight PDMS						
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
Ultra-High Molecular Weight Functionalized PDMS						
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
Ultra-High Molecular Weight PDMS Plus Silica Reinforcement						
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
High Molecular Weight PDMS						
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
Low Molecular Weight (LMW) Siloxane						
MB20-736	■	■		POM	POM	20

*Dow Corning® masterbatch products



Learn More

For more information about Dow Corning's wide range of solutions for thermoplastic compounds, email plastics@dowcorning.com or visit 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 Dow Corning® MB50-320 Masterbatch, which is a 20kg bag), and 400kg boxes.

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