# < DUPONT >

## DOW CORNING<sup>™</sup> Masterbatch Products

Achieve greater design freedom and productivity in plastics manufacturing with the benefits of silicone.



Our silicone-based solutions help enhance polymer processing 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
- Other benefits, depending on formulation

### One Additive, Many Benefits

DOW CORNING<sup>™</sup> 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.

### **High Compatibility**

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



## DOW CORNING<sup>™</sup> 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 and compatibility.

### DOW CORNING<sup>™</sup> Masterbatch Additives Product Range for Thermoplastic Compounds

Compatibility	Typical application/benefit (non exhaustive)	Product	Extend	Enhance	Reinforce	Polymer Phase
		Polyolefins				
PP, PE, TPO, TPE, TPV	Scratch resistance for PP talc, slip in TPE, processing aid, COF	MB50-001				PPH
PP, PE, TPO, TPE, TPV	Scratch resistance for PP talc, processing aid	MB50-001 G2				PPH
PP, PE, TPO, TPE, TPV	Scratch resistance for PP talc and TPE, processing aid	HMB-0221				PPH
PP, PE, TPO, TPE, TPV	Slip additive for BOPP films	HMB-6301				PPH
PP, PE, TPO, TPE, TPV	Processing aid, slip in TPE	MB25-501				PPH
PP, PE, TPO, TPE, TPV, PA	Processing aid for highly mineral filled PE compounds (e.g. wire/ cable), and pipe/duct., improve surface appearance (floatation) and mold release	MB50-002	•	•		LDPE
PP, PE, TPO, TPE, TPV	Slip additive for PE blown films	MB25-035				LDPE
PP, PE, TPO, TPE, TPV	Processing aid for highly mineral filled PE compounds (e.g. wire/ cable), and pipe/duct.	MB25-502		•		LDPE
PP, PE, TPO, TPE, TPV	Slip/antiblock additive for PE blown films	AMB-12235				LDPE
PP, PE, TPO, TPE, TPV	Slip additive for PE blown films	MB25-235				LDPE
PP, PE, TPO, TPE, TPV	Reduce coefficient of friction, Processing aid	MB50-313				LLDPE
PP, PE, TPO, TPE, TPV	Slip in TPE	MB50-321				PPH
PP, PE, TPO, TPE, TPV	Processing aid, wear resistance	MB50-801				PPH
PP, PE, TPO, TPE, TPV	HFFR Synergist, improve charing	MB50-802				LDPE
PP, PE, TPO, TPE, TPV	Reduce Coefficient of friction, processing aid	MB50-314				HDPE
EVA, PA	Processing aid, wear resistance improvement (e.g. shoe sole)	MB50-320	•	•	-	EVA
		Thermoplastic Polyurethanes				
TPU	Processing aid, abrasion improvement, MAR	MB50-017				TPU
		Styrenics				
PS, HIPS, ABS, SAN, PPS	Reduce coefficient of friction, processing aid	MB50-004				HIPS
PS, HIPS, ABS, PC-ABS, SAN	Reduce coefficient of friction, improve scratch resistance	MB50-007				ABS
PS, HIPS, ABS, PC-ABS, SAN, PVC	Reduce coefficient of friction, improve scratch resistance	MB50-008				SAN
		РОМ		-		
POM	Reduction of coefficient of friction, processing aid	MB40-006				POM
PA, POM	Reduction of coefficient of friction, surface improvement, processing aid	HMB-1103	•	•		EMA
		PA				
PA	High flow, lower COF	MB50-011				PA6
EVA, PA	Processing aid	MB50-320				EVA
PA, POM	Surface improvement (wear, COF, scratch), processing aid	HMB-1103				EMA
		PET				
Polyester	Processing aid	MB50-010				COPE
Polyester	Processing aid, flow improvement	MB50-012				PET
		Polycarbonate				
PC, PC-BLEND	Processing aid, low temperature impact, wear resistance	MB50-315	•	•	•	PC

The concentration of siloxane can vary.

\* DOW CORNING<sup>™</sup> masterbatch products

### Extend Properties, Enhance Processing, Reinforce Materials.

Combining an industry-leading portfolio of silicone-based additives, silicone elastomers and thermoplastic elastomers —plus deep experience in serving the industries that use them— we can help you capture greater efficiencies in production while delivering more performance, durability and quality to your end-users. To learn more about our wide range of plastics, visit www.dupont.com/industrial/multibase and contact us if you have any questions.

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