DuPont Sell Sheet

MULTIBASE™ Thermoplastic Additives

Achieve greater performances, 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

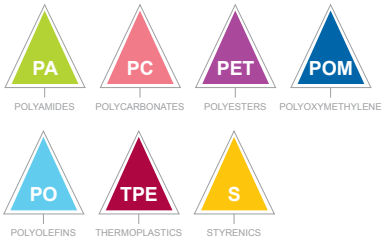
One Additive, Many Benefits

MULTIBASE™ thermoplastic 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.



MULTIBASE™ 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.

MULTIBASE™ 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
		POM				
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, slip additive	MB50-315	■	■	■	PC
PC/ABS blends	Long term anti-squeak additive	HMB-1903	■	■		Confidential

The concentration of siloxane can vary.

* MULTIBASE™ 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/multibase and contact us if you have any questions.

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