

Multibase® Thermoplastic Additives

Products	Siloxane Concentration	Carrier	Carrier MFI (g/10mn)	MFI Conditions	Compatibility	Key Benefits	
						Processing Aid	Surface Enhancements
Masterbatch® Ultra High Molecular Weight PDMS							
MB50-001	50	PPH	12	230°C/2.16 KG	PP/TPE	<ul style="list-style-type: none"> Reduced extruder torque and pressure Improved organic and inorganic filler dispersion Improved mold release 	<ul style="list-style-type: none"> Lower coefficient of friction Predictable and stable coefficient of friction within time and temperature Durable scratch and mar resistance Improved wear resistance Improved surface feel Reduced surface roughness
MB50-002	50	LDPE	8	190°C/2.16 KG	PE/TPE		
MB50-004	50	HIPS	3.5	200°C/5 KG	Styrenics		
MB40-006	40	POM	23	190°C/2.16 KG	Acetal		
MB50-008	50	SAN	8	230°C/3.8 KG	Styrenics/PVC		
MB50-010	50	Hytrel	8.5	230°C/2.16 KG	Polyesters		
MB50-011	50	PA6	-	-	Polyamides		
MB50-017	50	TPU	52	190°C/8.7 KG	TPU		
MB50-313	50	LLDPE	35	230°C/2.16 KG	PP/TPE		
MB50-314	50	HDPE	57	190°C/2.16 KG	HDPE		
MB50-315	50	PC	15	300°C/1.2 KG	PC/PC Alloys		
MB50-320	50	EVA	0.7	190°C/2.16 KG	EVA/PVC		
MB50-321	50	PPH	35	230°C/2.16 KG	PP/TPE		
Masterbatch® Silica Modified Ultra High Molecular Weight PDMS							
MB50-801	50	PPH	12	230°C/2.16 KG	PP/TPE	Processing aid: <ul style="list-style-type: none"> Improved siloxane polymer compatibility Improved additive dispersion 	Surface enhancements: <ul style="list-style-type: none"> Lower coefficient of friction Durable scratch and mar resistance
MB50-802	50	LDPE	8	190°C/2.16 KG	PE/TPE		
MB50-804	50	HIPS	3.5	200°C/5 KG	Styrenics		
MB50-807	50	ABS	1.4	200°C/5 KG	Styrenics		
Masterbatch® High Molecular Weight PDMS							
MB25-501	25	PPH	12	230 °C/2.16 KG	PP/TPE	Processing aid: <ul style="list-style-type: none"> Reduces melt fracture Reduced extruder torque and pressure Improved mold release 	Surface enhancements: <ul style="list-style-type: none"> Increased surface lubricity Lower coefficient of friction Durable scratch and mar resistance
MB25-502	25	LDPE	8	190 °C/5 KG	PE/TPE		
MB25-504	25	HIPS	3.5	200 °C/2.16 KG	Styrenics		
MB25-511	25	PA6	-	-	Polyamides		

Common Key Benefits of Masterbatch® Technology

- Dry
- Free flowing pellets
- Polymer specific
- High active concentration
- Low density
- Long shelf life
- Most products have food contact approval

The *Masterbatch®* Thermoplastic Additives may be processed in the same way as the thermoplastics on which they are based. A sufficient level of *Masterbatch®* Thermoplastic Additives should be blended with virgin polymer pellets to give the desired siloxane level in the final product. General guidelines: 0.1-2% as a processing aid (improved flow, mold release, less extruder torque) and 2-10% for improved surface properties (lubricity, slip, lower coefficient of friction, scratch and mar). Please contact Multibase for recommended dilution rates.

Multibase® Thermoplastics Additives Compatibility Chart

Material	Carrier	PP	PE	TPE	TPO	TPV	PS ABS SAN	PVC	PA	EVA	POM	PDVF	TPU	Polyesters	PC
MB50-001	PPH	X		X	X										
MB50-002	LDPE		X	X	X	X									
MB50-004	HIPS						X								
MB40-006	POM										X				
MB50-008	SAN						X	X				X			
MB50-010	POLYESTER													X	
MB50-011	PA6								X						
MB50-017	TPU												X		
MB50-313	LLDPE		X	X											
MB50-314	HDPE		X	X											
MB50-315	PC														X
MB50-320	EVA							X		X					
MB50-321	PPH	X		X	X	X									
MB50-801	PPH	X		X	X										
MB50-802	LDPE		X	X											
MB50-804	HIPS						X								
MB50-807	ABS						X								
MB25-501	PPH	X		X	X	X									
MB25-502	LDPE		X	X		X									
MB25-504	HIPS						X								
MB25-511	PA6								X						

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