

Siloxane Masterbatch from Multibase, a Dow Corning company

MARKET Approach

Automotive Compounding

Targeted customers: Polypropylene and TPO compounders, Tier 1

Value proposition: SiMB provides long lasting antiscratch performance (Delta L below 1 Under 10N) but above all, it avoids tackiness, odor and fogging that other additives may cause.

Typical formulation: filled polypropylene with talc (10-20%) and elastomer (10-15%)

Products to propose and loading: MB50-001 at 1-3% weight

Wire & Cable, Fiber Optic Ducts

Targeted customers: Wire & cable extruders / compounders (PA, PP, PE, EVA, PVC, PE)

Value proposition: SiMB reduces the CoF when dispersed in the outer layer jacketing to enhance ease of installation. It also provides better surface aspect and aids in filler dispersion.

Typical formulation: Any cable formulation including HFFR compounds

Products to propose and loading: MB50-001, MB50-002, MB50-008, MB50-011, MB50-320 depending on the polymer matrix at 2-10% weight

Film Extrusion

Targeted customers: Cast, blown, multilayer co-extrusion, and oriented film producers

Value proposition: SiMB additives migrate to the surface during the melt phase and do not bloom during or after the crystallinity phase which provides slip to the surface of the film, reduces friction against machines rollers, reduces die build-up, and increases line speed.

Typical formulation: SiMB is added to the film contact layer; seal layer or abuse layer

Products to propose and loading: MB50-801 or MB50-802 at 0.5-4% weight

TPV & TPE Compounding

Targeted customers: Elastomer compounders and TPV/TPE converters (injection or extrusion)

Value proposition: SiMB additives combine UHMW PDMS into a polypropylene polymer matrix for high scratch and mar resistance. Additional benefits include improved surface appearance, soft touch, mold release, lower CoF, squeak elimination, and tackiness reduction.

Typical formulation: Any standard TPV or TPE consumer and industrial or automotive compound

Products to propose and loading: MB50-313, MB50-314, MB50-321 at 3-10% weight

Acetal (POM)

Targeted customers: POM compounders and processors

Value proposition: SiMB reduces coefficient of friction at the surface, provides vibration dampening and noise reduction, and increases scratch and mar resistance at both short and long term usage. It also eliminates use of external lubricants and extends life of acetal parts.

Typical formulation: Any POM consumer and industrial or automotive compound

Products to propose and loading: MB40-006 at 3-7% weight

Other Applications

Targeted customers: Compounders

Value proposition: Applications where lubricity, antiscratch, mold release, processing aid, or anti-block are required.

Products to propose and loading: to be adapted depending on the polymer from 0.5-7% weight

Siloxane Masterbatch from Multibase, a Dow Corning company PRODUCT Approach

Product to offer if the customer:	Is buying:	Is active in the following business:
MB50-001	Polymers: Polypropylene Additives: Talc, waxes or amide-type slip agents Elastomers	PP/TPO compounding Tier 1 for automotive
MB50-321	TPV/TPE Carbon black Silicone Oil	TPE/TPV compounding for automotive (glass run channels, slipcoats, corner molding) Tier 1 for automotive (glass run channels) Automotive interior & exterior TPE/TPV trim
MB40-006	Acetal (POM) Additives: Fluoropolymers, Silicone oil	Engineering Thermoplastics compounding Conveyor belt manufacturing
MB50-002 MB50-008 MB50-320	Polymers: Polyethylene, EVA, PP, PA Flame retardants: ATH (alumina trihydrate), MDH (magnesium hydroxide)	Cable compounding Cable extrusion Optical fiber conduits (inner-layer)
MB50-801 MB50-802	Polypropylene or Polyethylene	BOPP film manufacturing PE film manufacturing

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