



Siloxane Additives for POM Compounds

Pellet, powder and liquid additives to achieve superior CoF performance over PTFE

Key Features

- Better CoF performance over PTFE additives
- Significantly lower dosage needed
- Improves abrasion and mar resistance
- Contributes to torque reduction
- Suitable for in-kind and out-of-kind sliding partners
- Range of pellet and powder forms available



POLYOXYMETHYLENE

Dow Corning's expanding family of siloxane additives greatly enhances the surface properties of polyoxymethylene (POM) compounds used in automotive, consumer, medical and electronics applications.

Available in pellets (*Dow Corning*[®] MB40-006, HMB-1103 and MB20-736 Additives) or powder (*Dow Corning*[®] EP-5500 Additive), these formulations can significantly improve a compound's coefficient of friction (CoF), allowing it to achieve greater performance at significantly lower levels than silicone-polytetrafluoroethylene (PTFE) or silicone-oil, while maintaining excellent mechanical properties.

Additionally, they improve abrasion and mar resistance and offer superior processability vs. competitive materials through torque reduction. These ultra-high molecular weight polymers also overcome the handling and surface adhesion difficulties typical of similar plastic additives.

Benefits

- Contributes to visual and aesthetic improvements
- Provides great design freedom due to the improved ability to imprint injected parts
- Mechanical properties of POM compounds not impacted
- Improves processability
- Lowers costs and time to market

Target Applications

- **Manufacturing:** bearings, gears and conveyor belts
- **Automotive:** window lifting systems and steering column sensors
- **Medical:** small form factors such as insulin pens and dry powder inhalers
- **Electronics:** housings and roller shutter systems
- **Consumer:** kitchen and household appliances and sports equipment



Many Solutions. One Source.

A longtime global leader in developing innovative silicon-based solutions, Dow Corning offers a variety of Plastics and Composites Solutions. Our additive and ready-to-use solutions help solve your needs in terms of processing, reinforcing materials and enhancing properties. From fluids to pellets, we help simplify the access to the uniqueness of silicone technology.

To learn more about Dow Corning's wide range of Plastics and Composites solutions, visit dowcorning.com/plascomp, email the Plastics team on plastics@dowcorning.com or go to dowcorning.com/ContactUs for a contact close to your location.

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