Dow Corning® MB25-035 Masterbatch

Long-lasting, cost-effective slip performance for form-fill-seal packaging

Features

- Low dynamic COF at low loadings (example: 0.2 COF in film against steel at 3 percent masterbatch loading)
- Provides longer-lasting slip performance during/after thermal aging than organics, which can degrade at elevated temperatures
- Non-migrating across film layers
- U.S. Food & Drug Administration (FDA) and European Union (EU) 10-2011 food contact compliant
- Easy dosing
- No die build-up or gel deposition during extrusion

High-speed, high-volume form-fill-seal (FFS) packaging operations place stresses on low-density polyethylene (LDPE) film, including increased levels of surface friction. Reducing coefficient of friction (COF) is critical to seamless throughput, high productivity and consistent quality. Dow Corning® MB25-035 Masterbatch provides exceptional slip performance while overcoming the drawbacks of organics. Equally important, it helps to control costs.

Traditional organic slip additives, including erucamide and oleamide, rapidly migrate to the film surface and dissipate in a short period of time. Because they migrate so easily, they transfer between film surfaces during rolling and storage, from one film layer to another and from film to package contents, increasing the risk of food contamination. They also lose effectiveness under elevated temperatures, such as exposure to hot foods.

Dow Corning® MB25-035 Masterbatch eliminates these issues by retaining excellent COF reduction values without migration for an extended period (for instance, during long-term storage before use), far surpassing any other technology on the market today.

From a cost-efficiency standpoint, Dow Corning® MB25-035 Masterbatch offers several advantages. First, it is effective at low loadings. Second, it can be incorporated only in the outer layer of multi-layer films (unlike organics, which are added to all layers),

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Advantages

• Reduces friction to enable higher throughput and productivity in FFS packaging
• Delivers long-lasting stability to maintain slip performance during delays between film extrusion and FFS operations
• Avoids quality issues by preventing migration of slip additive between film layers or into package contents
• Optimizes processing with smooth dosing and homogeneous dispersion
• Controls costs with lower loadings and use in only the outer layer of multi-layer film

Target Applications

• Low-density polyethylene (LDPE) resins and blends used for blown film in FFS operations
• Linear low-density PE (LLDPE) for FF and lamination operations

Target Customers

• Film producers for FFS packaging
• Polyethylene resin producers of ready-to-use compounds for FFS film producers

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 the wide range of Plastics and Composites solutions from Dow Corning, 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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