



Dow Corning® HMB-6301 Masterbatch

Long-lasting slip performance without migration for BOPP film processing

Features

- Low dynamic CoF at low loadings (example: 0.2-0.3 CoF in film on film at 2-5 wt %)
- Long-lasting, consistent slip performance
- Non-migrating across film layers
- No transfer of silicone on the corona-treated face when film is rolled
- European Union (EU) 10-2011 food contact compliant and U.S. Food and Drug Administration (FDA) approval in progress
- Suitable for sequential and simultaneous BOPP processing
- Easy handling, free-flowing pellets



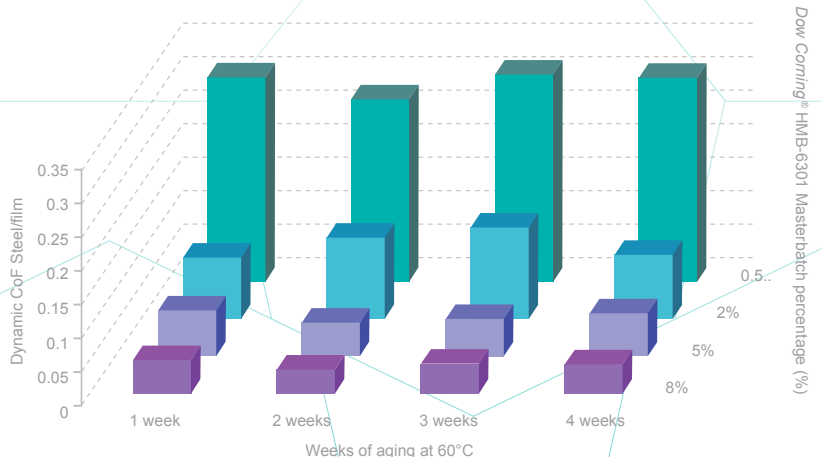
Coefficient of friction (CoF) is one of the main issues in processing bi-axially oriented polypropylene (BOPP) film for packaging production. CoF causes deformations and uneven film thickness, negatively affecting the film's appearance. This induces downtime and interruptions. Although standard slip additives are commonly used in the film industry, they cannot guarantee a consistent level of CoF, at elevated temperatures and over time.

There is another major drawback to standard slip additives such as organic waxes: they readily and continuously migrate from the surface of the film. This migration can increase the haze level of clear film and impact downstream processes such as printing and metallization.

Dow Corning® HMB-6301 Masterbatch solves these issues. This patent-pending, silicone-based additive for BOPP and cast films immediately improves slip performance and remains stable over time and temperature.



Stable slip performance over time



Advantages

- Reduces friction to enable higher throughput and productivity in BOPP film processing
- Delivers long-lasting stability to maintain consistent slip performance
- Prevents transfer to preserve film's ability to be printed and metallized
- Maintains optical properties of the film
- Controls costs with low loadings and use in only the outer layer of the film

Target Applications

- BOPP and cast films used in bags, wrappers, packages and pouches

Target Customers

- BOPP and cast film converters
- BOPP and cast film processors

Further, *Dow Corning*[®] HMB-6301 Masterbatch is non-migrating and will not transfer from the film's silicone-treated face to the opposite corona-treated face. By avoiding impact on surface tension of the corona-treated face, the masterbatch preserves the effectiveness of printing and metallization. Also, this innovative product will not affect the optical properties of BOPP transparent film.

Dow's advanced silicone technology can benefit BOPP film converters and processors by enhancing productivity, consistency and quality.

Many Solutions. One Source.

A longtime global leader in developing innovative silicon-based solutions, Dow 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's wide range of plastics and composites solutions, visit dowcorning.com/plascomp, email the Plastics team at plastics@dowcorning.com or go to dowcorning.com/ContactUs for a contact close to your location.

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