# SiSiB® SiM4109 Slip Masterbatch for Polypropylene Films

## INTRODUCTION

SiSiB® SiM4109 is a super slip masterbatch based on a modified ultra-high molecular weight polydimethylsiloxane (UHMW PDMS) in a polypropylene terpolymer carrier. It is designed for BOPP and cast polypropylene (CPP) film applications where excellent surface smoothness, low coefficient of friction (COF), and high-speed processing are required. It provides non-migrating slip performance, no precipitation, no dusting, and minimal impact on optical clarity.

## BENEFITS

- Provides long-lasting, non-migrating slip
- No precipitation or surface dusting
- Minimal impact on film transparency or printability
- Excellent slip performance against metal at high temperatures
- Reduces static and dynamic COF
- Improves extrusion lubricity and surface quality
- Suitable for metallized and high-speed cigarette films

## PHYSICAL PROPERTIES

| | |
|---|---|
| Color and Appearance | White Pellet |
| Silicone Content | 12-18% |
| Carrier Resin | PP (Terpolymer) |
| MFI (190°C, 2.16 kg, g/10min) | 5-15 |
| Volatile Content (%) | Max. 0.5 |

These values are typical and not intended for specification purposes.

## APPLICATIONS

SiSiB® SiM4109 is ideal for BOPP, cast polypropylene (CPP), and other PP-based films requiring excellent hot slip and surface smoothness.

- **Processing methods:** Cast film, blown film, BOPP
- **Recommended dosage:**
  2-7 wt% in the skin layer, depending on target COF
- Compatible with anti-blocking agents if needed

## PACKING

SiSiB® SiM4109 is supplied in 25kg, craft paper bag.

## HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data

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sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

**STORAGE**

In the original unopened packaging, SiSiB® SiM4109 has a shelf life of 12 months at dry condition, room temperature.

**NOTE**

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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