

SiSiB® SiM4001 Silicone Slip Masterbatch for PE Film

INTRODUCTION

SiSiB® SiM4001 is a silicone slip masterbatch based on a polyethylene carrier, with a proprietary silicone copolymer as the active slip component. It is specially developed for polyethylene films to provide efficient and long-lasting slip performance without adversely affecting film transparency or downstream processing.

BENEFITS

- Significantly reduces static and dynamic coefficients of friction
- Improves film opening and helps reduce blocking
- Provides stable, long-lasting slip performance
- Good compatibility with PE, with no blooming or surface powdering
- No adverse effect on printing, laminating or heat sealing
- Improves processing lubrication

PHYSICAL PROPERTIES

Color and Appearance	White or pale-yellow pellets
Carrier Resin	PE
Melt Flow Index g/10 min, 190°C/2.16 kg	1-6
Volatile Content (%)	Max. 0.5
Bulk Density (kg/m ³)	500-600

These values are typical and not intended for specification purposes.

APPLICATIONS

SiSiB® SiM4001 is particularly suitable for polyethylene blown films and cast films. It is normally incorporated into the surface layer of the film to improve opening and slip performance.

USAGE GUIDELINES

The recommended addition level is 1–6%. For optimum opening and slip performance, SiSiB® SiM4001 should be incorporated directly into the surface layer of the film.

SiSiB® SiM4001 contains only the slip component and may be used in combination with a suitable antiblocking agent where enhanced antiblocking performance is required.

Due to its good processing lubricity, SiSiB® SiM4001 may initially help

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remove residual material from dead zones within the processing equipment, which may temporarily result in an increase in gels or specks during start-up. This effect will normally diminish once the process has stabilized and will not affect the final film performance.

PACKING

SiSiB® SiM4001 is supplied in paper-plastic laminated bags with a net weight of 25 kg per 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 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

Store SiSiB® SiM4001 in a cool and well-ventilated place. In the original unopened packaging, SiSiB® SiM4001 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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