

## SiSiB® SiM4023 Silicone Masterbatch

### INTRODUCTION

SiSiB® SiM4023 is a 100% active polyester-modified polysiloxane additive designed to enhance surface and processing performance of transparent engineering plastics such as PMMA, PC, PBT, PET, and PA. This additive does not affect the optical properties of the base resin and provides improvements in scratch resistance, gloss, surface smoothness, lubrication, and mold release.

With good compatibility in most thermoplastic systems, SiSiB® SiM4023 offers excellent long-term stability without migration or precipitation. It is suitable for both direct addition and use in masterbatch formulations.

### FEATURES & BENEFITS

- Enhances scratch and wear resistance
- Improves surface gloss and smoothness
- Facilitates internal lubrication and mold release
- Maintains transparency and clarity of the substrate
- Good compatibility with multiple resin systems
- Non-migrating, non-precipitating

### PHYSICAL PROPERTIES

Color and Appearance:	White Pellet
Concentration:	100%
Melting Range:	50-70°C
Volatiles (% , 105°C, 2h):	Max.0.5

*These values are typical and not intended for specification purposes.*

### APPLICATIONS

SiSiB® SiM4023 is suitable for use in transparent thermoplastics such as PMMA, PC, PBT, PET, and PA, as well as in thermoplastic elastomers like TPE and TPU. It functions as a scratch-resistant and surface-enhancing additive, improving processing lubricity, mold release, and gloss without compromising transparency. The product can be used in direct extrusion, injection molding, or for masterbatch production in various engineering applications.

### USAGE GUIDELINES

**Recommended dosage: 0.3-1.0% by weight.**

SiSiB® SiM4023 can be added through conventional melt blending

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processes (such as single-screw or twin-screw extrusion, side-feeding, injection molding, etc.) or premixed into the base resin. When used for masterbatch preparation, the addition ratio can be appropriately increased as needed.

### PACKING

SiSiB® SiM4023 is supplied in 25Kg craft paper bag with PE inner liner.

### 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

In the unopened original container SiSiB® SiM4023 has a shelf life of one year in a dry and cool place.

### 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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