

SiSiB® SiM4014 Silicone Additive for Thermoplastics

INTRODUCTION

SiSiB® SiM4014 is a modified copolymerized polysiloxane silicone additive suitable for a variety of thermoplastic resins. It significantly improves hydrophobicity while enhancing lubricity and mold release performance during processing.

Featuring a unique molecular structure, SiSiB® SiM4014 offers excellent compatibility with base resins without blooming, and does not negatively affect the appearance or surface treatment performance of finished products.

BENEFITS

- Improves hydrophobicity
- Reduces surface coefficient of friction
- Enhances surface smoothness
- Lowers surface energy
- Improves anti-fouling performance
- Processing Performance
- Improves lubricity and mold release
- Reduces processing torque and current
- Lowers energy consumption during processing
- Improves processing efficiency

PHYSICAL PROPERTIES

Color and Appearance:	White Pellet
Active Ingredient (%):	100
Melting Point (°C):	50-70
Volatile Matter (%):	Max.0.5

These values are typical and not intended for specification purposes.

APPLICATIONS

SiSiB® SiM4014 can be used in PE, PP, PVC, PET, PC, PC/ABS, and other thermoplastic systems to improve hydrophobicity, scratch resistance, lubrication, and mold release performance.

It is suitable for polyolefin and engineering plastics modification applications.

USAGE GUIDELINES

SiSiB® SiM4014 can be pre-mixed with pellets, powders, and other additives before processing, or added proportionally during masterbatch production.

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Recommended dosage:

- General use: 0.1–5% based on total formulation weight
- Hydrophobicity enhancement: approximately 1%
- Pigment dispersion: 5-20% based on pigment weight

PACKING

SiSiB® SiM4014 is supplied in cartons with PE inner bags, with a net weight of 25 kg per carton.

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 original unopened packaging, SiSiB® SiM4014 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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