

SiSiB® SR4180 Methyl Phenyl Silicone Resin

INTRODUCTION

SiSiB® SR4180 is a solvent-free methyl/phenyl silicone resin (phenyl-containing polysiloxane with alkoxy groups).

It is designed for resin modification to improve flexibility, crack resistance, weatherability, and heat resistance. It is a colorless to pale-yellow transparent liquid with high solid content and low viscosity.

EFFECTS

- High phenyl content for enhanced heat and weather resistance
- Improves film flexibility and crack resistance
- Excellent durability and UV resistance
- Excellent compatibility with organic resins
- High solid content, low VOC
- Good water resistance and chemical resistance
- Clear appearance; non-toxic and nearly odorless

PHYSICAL PROPERTIES

Appearance	Colorless to pale-yellow clear liquid
Viscosity (25°C, cPs)	10-200
Active Content (%)	Min.98

These values are typical and are not intended for use as specifications.

APPLICATIONS

SiSiB® SR4180 is used as a resin modifier to enhance flexibility, crack resistance, weatherability and heat resistance. It can be incorporated into silicone or organic resin systems.

Typical application include high-temperature insulating varnishes, heat-resistant coatings for large industrial equipment, silicone-modified hybrid coatings, and thermal-protective coatings applied to tanks, pipelines, casings and metallurgical equipment.

USAGE GUIDELINES

Ensure all fillers, solvents, and co-resins have low moisture content.

Additives and pigments must be tested for compatibility to avoid reactions with alkoxy groups that may reduce stability.

When added as modifier, it can improve flexibility, weatherability and heat

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resistance of the base resin system.

PACKING

SiSiB[®] SR4180 is available in 50KG drum.

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

Stored in the original sealed container at 0°C - 40°C, it has a shelf life of 12 months from the date of production.

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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