

SiSiB® VF6825 Vinyl Terminated Phenyl Methyl Silicone Fluid

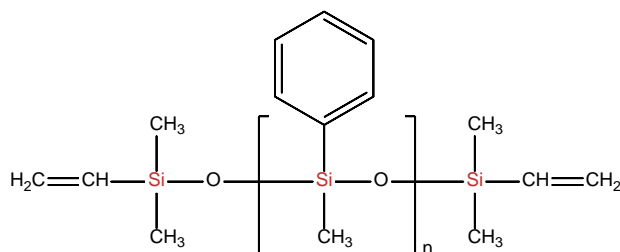
CHEMICAL NAME

Vinyldimethyl terminated methyl-phenyl polysiloxane

INTRODUCTION

SiSiB® VF6825 Vinyldimethyl-Terminated Methyl-Phenyl Polysiloxane is a specialized silicone polymer characterized by vinyl groups at both ends of its siloxane backbone, which is modified with methyl and phenyl substituents. This unique structure imparts enhanced thermal stability, oxidative resistance, and a higher refractive index compared to conventional polydimethylsiloxanes (PDMS).

CHEMICAL STRUCTURE



CAS NUMBER

225927-21-9

EINECS NUMBER

695-281-5

PHYSICAL PROPERTIES

| | |
|----------------------------------|--------------|
| Appearance | Clear liquid |
| Color | Colorless |
| Specific Gravity 25°C | 1.05-1.10 |
| Viscosity, cSt, 25°C | 5,000 |
| Refractive Index, 25°C | 1.530-1.560 |
| Vinyl Content, wt % | 0.81-1.08 |
| Volatile Content, 150°C, 3hrs, % | Max. 1.0 |

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

APPLICATIONS

High-Performance Silicone Elastomers

Utilized as a base polymer for producing elastomers with excellent thermal stability, oxidative resistance, and mechanical durability.

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Optical-Grade Materials

Suitable for optical applications requiring a higher refractive index, such as LED encapsulants and optical adhesives.

Electronic Encapsulation

Used in protective coatings and potting materials for electronic components, offering flexibility and stability over a wide temperature range.

High-Temperature Coatings and Sealants

Enhances the durability and weathering resistance of coatings and sealants exposed to extreme thermal and oxidative conditions.

PACKING

SiSiB® VF6825 is supplied in 5Kg, 25Kg pails, and 200Kg steel drums.

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® VF6825 has a shelf life of 24 months.

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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