

SiSiB® PC11277 Silicone Resin

INCI NAME Trimethylsiloxysilicate

INTRODUCTION SiSiB® PC11277 is a silicone MQ resin in white powders or flakes. This resin is a compact and double-layer cage structure composed of methyl-terminated multi-branched oligosiloxanes. The functional group -OH is further condensed in many applications to give highly crosslinked, insoluble polysiloxane networks. Due to this unique molecular structure, SiSiB® PC11277 exhibits excellent film-forming property, moisture and water resistance, and resistance to both high and low temperatures.

SiSiB® PC11277 is a solvent-free MQ silicone resin, free from harmful organic solvents such as isopropane and xylene.

ADVANTAGES

- Good compatibility with silicone materials and organic solvents
- Forming durable film after curing
- Thermal stability up to 300°C
- Excellent weather resistance, with good moisture and water repellency
- Soluble in toluene or xylene

PHYSICAL PROPERTIES

Appearance	White powder or flakes
M:Q ratio	(0.8-1.0):1.0
Transparency of 60% solution in xylene	>95
Molecular Weight	3000-6000
OH content	2-4%
Volatility (150°C, 2h)	Max.1%

BENEFITS & APPLICATIONS

SiSiB® PC11277 can be utilized as a film former in cosmetics, providing water repellency treatment. It serves as an additive in makeup, skincare products, and sunscreens. Additionally, it functions as reinforcing filler for silicone pressure-sensitive adhesives. As an intermediate, it is used in protective coatings that offer scratch resistance and insulation properties. Furthermore, SiSiB® PC11277 can be added to release agents, deforming agents, and other formulations.

SiSiB® PC11277 Silicone Resin

RECOMMENDED DOSAGE

It is recommended to conduct a preliminary test to determine the optimal dosage.

PACKING

SiSiB® PC11277 is supplied in 20Kg 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® PC11277 has a shelf life of two years in a dry and cool place.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

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.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.