

# SiSiB<sup>®</sup> VP6280

## Vinylsilane Oligomer

### INTRODUCTION

SiSiB<sup>®</sup> VP6280 is an oligomeric siloxane containing vinyl and ethoxy groups. It is a colorless, almost odorless, low viscosity liquid. SiSiB<sup>®</sup>VP6280 is an excellent silane bridging agent between inorganic fillers (such as kaolin, MDH, ATH) and organic polymers (EPDM, EVA, PE). The application of SiSiB<sup>®</sup>VP6280 in mineral-filled and peroxide cross-linked cable systems improves mechanical and electrical properties, especially when exposed to humid environments. The high boiling point and high flash point of SiSiB<sup>®</sup> VP6280 make it superior to monomeric silane in terms of safety, handling and processing. The amount of ethanol (VOC) released by SiSiB VP6280 is much less than that of monomeric silane.

### TYPICAL PHYSICAL PROPERTIES

Appearance	Colorless Liquid
Boiling Point	>242°C
Specific gravity	Approx.1
SiO <sub>2</sub> Content	Approx.45
Flash Point	>75°C
Viscosity	3-7 cSt

### APPLICATIONS

SiSiB<sup>®</sup> VP6280 is excellent as an adhesion promoter, dispersion and hydrophobation agent in mineral filled compounds. In the presence of moisture, the ethoxy groups of SiSiB<sup>®</sup> VP6280 hydrolyze to produce ethanol and reactive silanol groups. These silanol groups react with the filler via silicon-oxygen bridges. The vinyl functional groups of SiSiB<sup>®</sup> VP6280 react with the polymer phase in the presence of radicals: A major field of application for mineral-filled compounds is the cable industry.

The EPDM and EVA polymers with SiSiB<sup>®</sup> VP6280 are for the halogen-free, non-toxic, environment-friendly flame retardant cable compounds based on ATH and MDH.

In addition, SiSiB<sup>®</sup> VP6280 can be used in many other applications such as filler and pigment coating, dispersions etc.

### PACKING AND STORAGE

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# SiSiB<sup>®</sup> VP6280

## *Vinylsilane Oligomer*

SiSiB<sup>®</sup> VP6280 is supplied in 25Kg drum, 200kg steel drum or 1000Kg IBC.

Store in a cool and dry place out of direct sunlight.

### NOTES

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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Please send all technical questions concerning quality and product safety to: [silanes@SiSiB.com](mailto:silanes@SiSiB.com).