



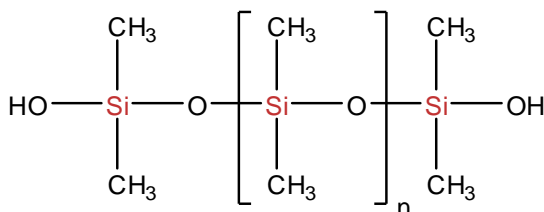
# SiSiB<sup>®</sup> PF1070 - 4K Polymer

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## CHEMICAL NAME

$\alpha,\omega$ -silanol-terminated polydimethylsiloxane ( $\alpha,\omega$ -Dihydroxypolydimethylsiloxane)

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> PF1070 polymer are intermediates for most room temperature vulcanizeable (RTV) silicones.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70131-67-8
Color and Appearance	Colorless transparent liquid
Density <sub>25/25°C</sub>	0.96-0.98
Refractive Index <sub>25°C</sub>	1.401-1.403
Viscosity	
SiSiB <sup>®</sup> PF1070-750	750cps
SiSiB <sup>®</sup> PF1070-1K5	1,500cps
SiSiB <sup>®</sup> PF1070-2K	2,000cps
SiSiB <sup>®</sup> PF1070-3K5	3,500cps
SiSiB <sup>®</sup> PF1070-4K	4,000cps
SiSiB <sup>®</sup> PF1070-5000	5,000cps
SiSiB <sup>®</sup> PF1070-10K	10,000cps
SiSiB <sup>®</sup> PF1070-20K	20,000cps
SiSiB <sup>®</sup> PF1070-50K	50,000cps
SiSiB <sup>®</sup> PF1070-80K	80,000cps

**Power Chemical**  
ISO9001 ISO14001 certificated

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## APPLICATIONS

Condensation cure one-part and two-part RTV systems are formulated from silanol terminated polymers with molecular weights ranging from 15,000 to 150,000. One-part systems are the most widely used. One-part systems are crosslinked with moisture-sensitive multi-functional silanes in a two stage reaction. In the first stage, after compounding with fillers, the silanol is reacted with an excess of multi-functional silane. The silanol is in essence displaced by the silane.

The reactivity of silanol fluids is utilized in applications other than RTV's. Low viscosity silanol fluids are employed as filler treatments and structure control additives in silicone rubber compounding. Intermediate viscosity, 1000-10,000 cSt. fluids can be applied to textiles as durable fabric softeners. High viscosity silanol terminated fluids form the matrix component in tackifiers and pressure sensitive adhesives.

## PACKING AND STORAGE

SiSiB® PF1070-4K polymer is supplied in 190Kg steel drum or 950Kg IBC container.

In the original unopened packaging, SiSiB® PF1070-4K has a shelf life of 18 months in a dry and cool place.

## 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).