

## Silopren™ U Chain Extender TP 3666

### Description

**Silopren U Chain Extender TP 3666** is a polydimethylsiloxane with reactive terminal SiH groups. This crosslinking agent is used to extend the chains of Silopren U polymers. For this reaction, the presence of a precious metal catalyst is necessary. It is expedient for the chain extension to take place during the normal crosslinking reaction of the compound.

Short-chained polymers have a low viscosity which advantageous the processing of the material while at the same time having the disadvantage of reduced strength. Chain extenders work by adding the terminal SiH groups to the terminal Si-vinyl groups of the polymers during the vulcanization process.

As a result of the extended molecule chains of the polymers, the vulcanizate has lower hardness, greater elongation at break and higher tear strength.

### Key Features and Typical Benefits

- Polysiloxane with reactive terminal SiH groups.

### Typical Physical Properties

Appearance			Colourless
SiH content		mmol/g	0.12
Viscosity	DIN 53 015	mPa·s	1000
Density	DIN 51 757	g/cm <sup>3</sup>	0.97

Typical properties are average data and are not to be used as or to develop specifications.

### Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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### **Contact Information**

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