

Polymer VS

Vinyl–functional polydimethyl siloxanes

The products of the Polymer VS series are vinyl–terminated polydimethyl siloxanes with different viscosity levels and molecular weights, and an extremely low content of volatile constituents. They serve as a base polymer in addition–crosslinking silicone formulations. Polymer VS is also available in viscosities other than those listed below.

Technical data (no specifications)

Product name	Viscosity at 25 °C [mPas]	Vinyl content [mmol/g]
Polymer VS 50	50	0.60
Polymer VS 100	100	0.40
Polymer VS 200	200	0.25
Polymer VS 500	500	0.14
Polymer VS 1000	1 000	0.11
Polymer VS 2000	2 000	0.08
Polymer VS 2500	2 500	0.07
Polymer VS 5000	5 000	0.06
Polymer VS 10000	10 000	0.05
Polymer VS 20000	20 000	0.04
Polymer VS 65000	65 000	0.03
Polymer VS 100000	100 000	0.02
Polymer VS 165000	165 000	0.015

Technical data (no specification)

Property	Unit	
Appearance		clear and colorless liquid
Volatility	[wt%]	< 0.8
Refractive index n_D^{20}		1.4055

Application

Polymer VS cures by a platinum-catalyzed addition reaction with silicone crosslinkers containing SiH groups. Due to the low content of volatile constituents and the crosslinking mechanism, the curing shrinkage remains low and no volatile or corrosive substances are formed while curing.

Polymer VS can be used for a wide range of applications by selecting the suitable crosslinkers (Crosslinker 100 series, Crosslinker 200 series), catalysts (Catalyst 500 series), additives and fillers (VQM, Compound VS).

Packaging and Storage

Packaging	190 kg drum, 950 kg IBC PE
Shelf life	12 months in originally sealed containers
Storage	Dry, up to 30 °C (86 °F) in sealed containers, do not permanently expose to intensive sunlight

Safety and Handling

The rules and regulations for the handling and use of chemicals have to be observed. Please refer to the Material Safety Data Sheets for further details.

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