

Polymer OH

Hydroxy-terminated polydimethylsiloxane

Polymer OH are polydimethyl siloxanes with terminal silanol groups used as base polymers in condensation-curing silicone elastomers. Polymer OH is available in different viscosity levels between 80 and 400 000 mPas. Other viscosities are possible upon request. Please note that Polymer OH 0.08 acts as an inhibitor and can therefore be used for delaying the curing process.

Technical data (no specification)

Product name	Viscosity at 25 °C [mPas]	Product name	Viscosity at 25 °C [mPas]
Polymer OH 0.08	80	Polymer OH 5	5 000
Polymer OH 0.75	750	Polymer OH 20	20 000
Polymer OH 1	1 000	Polymer OH 80	80 000
Polymer OH 2	2 000	Polymer OH 300	400 000
Polymer OH 3.5	3 500		

Technical data (no specification)

Property	Unit	
Appearance		clear, colourless liquid
Refractive index n_D^{20}		1.4058
Density (20 °C)	[g/cm ³]	0.98

Application

Polymer OH can be cured with usual condensation cross-linkers such as alkoxy silanes, acetoxy silanes (Crosslinker AC), oxime silanes (Crosslinker OX and Crosslinker OX MOD) and enoxy silanes (Crosslinker K) in connection with catalysts (e. g. tin catalysts, Catalyst TD 18).

Especially the low-viscosity types can be used as reactive diluents for the viscosity adjustment in a mixture with higher viscosity polymers.

The crosslinking reaction occurs in connection with water. In conventional single-component formulations, this water can be introduced through humidity. However, Polymer OH can also be formulated as two component systems. In that case, the required water is added through the second component. Substantially higher curing rates and depths are achieved in this way.

Packaging and Storage

Packaging	950 kg IBC PE, different packaging upon request
Shelf life	24 months in originally sealed containers
Storage	Dry, up to 30 °C (86 °F) in sealed containers.

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 Sheet for further details.

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Evonik Nutrition & Care GmbH

Charlottenburger Str. 9, 21502 Geesthacht, Germany

Phone: +49 4152 8092-0, Fax: 49 4152 79156

nano-and-silicone-technology@evonik.com, www.evonik.com/nano-and-silicone-technology