

Polymer RV

Vinyl-functional polydimethyl siloxanes

Products of the Polymer XP RV range are vinyl-functional polydimethyl siloxanes of various molecular weights. They contain both, terminal and pendant vinyl groups. Due to this structure, they produce higher crosslinking densities than Polymer VS at similar viscosity levels.

Technical data (no specification)

Product name	Viscosity at 25 °C [mPas]	Vinyl content [mmol/g]	Refractive index n_D^{20}
Polymer RV 100	120	0.5	1.4070
Polymer RV 200	360	2.3	1.4130
Polymer RV 5000	3 000	0.4	1.4070

Technical data (no specification)

Property	Unit	
Appearance		clear, colourless liquid
Density (20 °C)	[g/cm ³]	approx. 1

Application

Polymer XP RV can be used as a base polymer or as an additive with Polymer VS. It cures by a platinum-catalyzed addition reaction with silicone crosslinkers containing SiH-groups. The formulator can adjust the formulation properties over a wide range 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 Sheet for further details.

11/2016

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

(Status: August 2014)

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