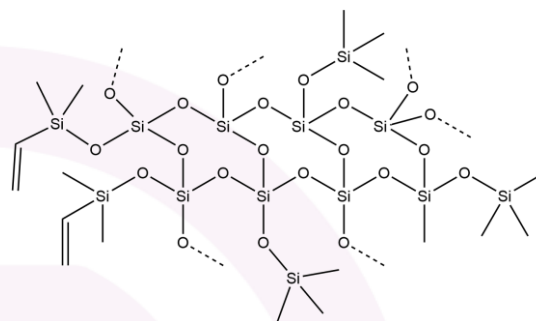


Which VQM to choose?

VQM is a series of vinyl-functional silicone resins dissolved in Polymer VS.

They can be used to improve tensile strength of crystal-clear silicone formulations as well as to improve flow and mechanical performance of filled formulations.

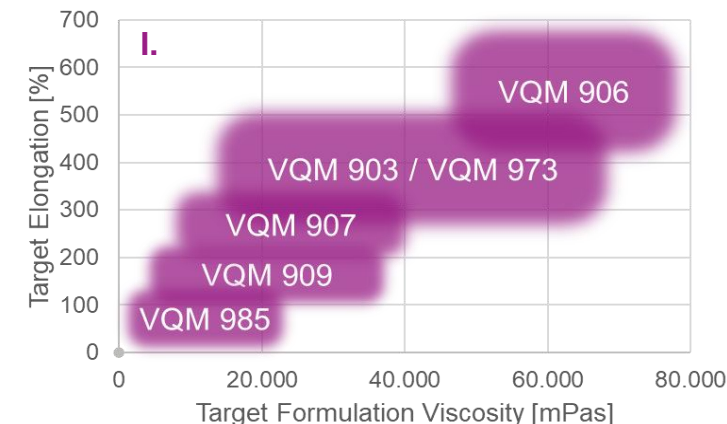
The VQM range comprises different resin contents and different base polymer viscosities. Thereby the level of reinforcement and the targeted final elasticity can be adjusted.



I. Viscosity & Elongation

The choice of a particular VQM grade mainly depends on the **targeted final formulation viscosity** as well as the **elongation at break of the final product**.

This chart gives an orientation for this choice. However, due to the multitude of possible formulations it is advisable to consider also the grades adjacent to the primary choice.



II. Resin Content

Products with **high mechanical strength** will require high resin loadings of up to appr. 30 % in the final mixture.

This can be achieved with **VQM 973** and **VQM 985** (45 % resin content). These products also give a higher freedom to add further ingredients (e.g. Polymer VS of higher or lower viscosities) maintaining a high resin level.

The other VQM products (with 20-25 % resin content) can often be conveniently used as the only binder polymer in the formulation, i.e. without further addition of Polymer VS or other vinyl silicones.

This can be favourable to **reduce complexity** in the formulation, in the later production process and in the supply chain.

