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Silfluo LR-MQV Liquid

Methyl Vinyl MQ Silicone Resin

Description:

Silfluo LR-MQV Liquid is a high-purity vinyl-functional MQ silicone resin supplied as a transparent solution in toluene. Synthesized through the co-hydrolysis of silicate (Q units) and vinyldimethylsiloxy/trimethylsiloxy (M units), this resin forms a three-dimensional polysiloxane network. With a controlled M to Q ratio and vinyl functional groups, it enables rapid and hydrosilylation (addition-cure) crosslinking. This pre-dissolved liquid format completely eliminates the need for energy-intensive powder dispersion, offering flow and integration into solvent-borne formulations. It serves as the reinforcing and modifying intermediate for optical-grade silicone elastomers, pressure-sensitive adhesives (PSAs), and automotive glazing treatments.

Chemical Name: Vinyl-Functional MQ Silicone Resin Solution

Synonyms: Methyl Vinyl MQ Resin in Toluene, Vinyl MQ Copolymer Solution, VQM Resin Liquid

CAS NO.: 68988-89-6

Typical Technical Properties:

Silfluo Code:	LR-MQV6	LR-MQV7	LR-MQV9	LR-MQV61	LR-MQV10
Appearance	Colorless to light yellow clear liquid	Colorless to light yellow clear liquid	Colorless to light yellow clear liquid	Colorless to light yellow clear liquid	Colorless to light yellow clear liquid
Viscosity, mpa.s:	6300±500	6500±500	8000±500	6500±500	11000±1000
Vinyl Content(%)	0.96±0.02	1.31±0.02	1.32±0.02	1.94±0.02	1.10±0.02
M/Q Value	0.7~0.9	0.7~0.9	0.7~0.9	0.7~0.9	0.7~0.9
Volatile(%)	≤1	≤1	≤1	≤1	≤1
Note: It could be customized upon requirement.					

Silfluo Code:	LR-MQV19	LR-MQV70	LR-MQV60	LR-MQV101
Appearance	Colorless to light yellow clear liquid	Colorless to light yellow clear liquid	Colorless to light yellow clear liquid	Colorless to light yellow clear liquid
Viscosity, mpa.s:	19500±1500	70000±10000	60000	11000±1000
Vinyl Content(%)	1.10±0.02	1.25±0.02	1.6±0.02	13.2±0.2
M/Q Value	0.7~0.9	0.7~0.9	0.7~0.9	0.7~0.9
Volatile(%)	≤1	≤1	≤1	≤10
Note: It could be customized upon requirement.				

Nanjing Silfluo New Material Co., Ltd.
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Solubility:

Hydroxyl Silicone Fluid:	●
Methyl Silicone Oil:	●
Vinyl silicone Oil:	●
White Oil:	○
Castor Oil:	○
Paraffin 52:	○
PE wax:	○
Isopropanol:	●
Ethanol:	●
Water:	○
Toluene:	●
Glycerin:	○
Propylene Glycol:	○
Ethyl Acetate:	●
C9-C13 isoparaffins:	●

○=Insoluble ●=Soluble (⩾20%)

Delivery form

Toluene liquid (75%), silicone oil dispersion(1:1)

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Applications:

1. Addition-Cure Mold Adhesives: Acts as a reinforcing agent for transparent mold-making compounds; incorporating up to 40% yields mold rubbers with optical clarity, elongation, and mechanical tear strength.
2. Silicone Pressure-Sensitive Adhesives (PSAs): Widely utilized to upgrade the cohesive strength of PSA systems, providing formulators with control over peeling force and initial tack levels for industrial tapes and protective films.
3. Advanced Automotive & Architectural Glazing: Serves as a film-forming additive in glazing and surface polishes, forming a durable, crosslinked barrier that enhances the long-term waterproof capabilities of automobiles and household ceramics.
4. Cohesive Strengthening of Addition Systems: Incorporated as a thickening and reinforcing resin across various platinum-catalyzed silicone systems, maximizing cohesion and improving adhesion to challenging substrates.

Package &Storage:

In 20kg box or 25kg pail, 200kg drum.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened containers, shelf life is 24 months from the date of production. Transported as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

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