

# Technical Data Sheet



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## Methyl Vinyl MQ Silicone Resin LR-MQV Liquid

### Description:

LR-MQV vinyl MQ silicone resin is a cohydrolysis product of tetraalkoxysilane (Q units) and dimethylethoxysilane (M units). LR-MQV can be regarded as a three-dimensional network structure of trimethylsilane-terminated polysilicate, containing some ethoxy and hydroxyl functional groups. Its average molecular weight can be precisely adjusted by the ratio of M and Q units.

LR-MQV liquid is transparent liquid in toluene, without any volatile impurities mixed in the production process. Therefore, this product contains almost no other impurities except trace aliphatic hydrocarbons. Since LR-MQV has uniform spherical particle size and extremely low fine powder content, it has excellent rheological properties (flow).

CAS NO.: 68998-89-6

### Typical Technical Properties:

Item	LR-MQV6	LR-MQV7	LR-MQV9	LR-MQV61	LR-MQV10
Appearance	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.

Item	LR-MQV19	LR-MQV70	LR-MQV60	LR-MQV101
Appearance	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.

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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. LR-MQV vinyl MQ silicone resin, as a basic raw material, can be used for addition mold adhesives, pressure sensitive adhesives, addition system reinforcement and thickening. Adding 40% to transparent mold adhesives, it can produce high transparency High elongation mold compound;
2. In the field of glazing, it can effectively enhance the waterproof of automobiles or household items;
3. In the pressure-sensitive adhesive industry, LR-MQV can improve the cohesive strength of silicone pressure-sensitive adhesives and adjust the peeling force;
4. Transparent reinforcement or thickening, it can fully improve the cohesive strength of the system and the adhesion with the base material in the addition system.

## 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. It is shipped 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.