

Vinyl MQ Silicone Resin

SK-VR-710

Product Description:

● This product is a co-hydrolysate of tetraalkoxysilane and trimethylalkoxysilane. It can be described as a three-dimensional polysilicic acid network resin end-capped with trimethylsilyl and partially with vinyltrimethylalkoxysilyl groups, dissolved in vinyl-terminated silicone oil at approximately 50% by weight. It offers excellent optical clarity, reinforcement, and thermal stability, making it ideal for silicone adhesives used in electronic encapsulation and optical coatings.

Technical Specifications:

Test Item	Typical Data	Test standard/Instrument
Appearance	Colorless to light yellow transparent liquid	Visual inspection
M/Q Ratio	0.70~0.80	/
Viscosity (mPa·s /25°C)	9000~11000	GB/T 10247-2008
Vinyl Content (wt.%)	1.00~1.20	Sodium thiosulfate back-titration
Refractive Index (25°C)	1.41±0.01	GB/T 6488
Volatile content (%)	≤1.0	150°C/3H, atmospheric drying

Typical Applications:

- Reinforcement of silicone rubber: enhances mechanical properties of liquid silicone rubber.
- LED encapsulants: high-temperature resistant, high-transparency LED packaging and semiconductor protective coatings.
- Electronic potting compounds: acts as a reinforcing filler in addition-cure potting compounds for high hardness and strength.

Packaging & Storage:

- Packed in 200KG drums.
- Store in a dry place at room temperature.
- Non-flammable and non-explosive; transport as non-hazardous goods;.
- Recommended to use within 12 months from manufacturing date. Re-test if expired.

Safety & Environmental Notes:

- Wear appropriate protective gear when handling. Refer to the MSDS for details.
- Dispose of packaging in compliance with local solid waste regulations.

Notes:

- The information contained in this document is based on reliable data we have obtained. The content, product performance improvements, and product specifications may change without prior notice.
- The information provided in this document is based on our laboratory and practical experience and is for reference only. Since the conditions and methods of using this product are beyond our control, it is essential to conduct application tests and evaluations before use.
- Some performance parameters of the product can be adjusted according to customer requirements. If needed, please contact our technical department engineers.