

Vinyl MQ Silicone Resin

SK-VR-710L

Product Description:

● SK-VR-710L is a co-hydrolysate of tetraalkoxysilane and trimethylalkoxysilane, forming a three-dimensional polysilicic acid network structure with trimethylsilyl and partial vinyl dimethylalkoxysilyl end groups. Approximately 50% soluble in vinyl-terminated silicone oil, it offers exceptional optical clarity, reinforcement properties, and thermal stability, making it ideal for silicone adhesives in electronic encapsulation and optical coating applications.

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)	4000~5000	GB/T 10247-2008
Vinyl Content (wt.%)	1.10~1.30	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:

- Superior Optical Clarity & Reinforcement: Enhances mechanical properties of liquid silicone rubbers.
- High-Temperature Resistance: Ideal for LED encapsulation and semiconductor protective coatings.
- Electronic Potting: Strengthens addition-cure potting compounds for high hardness and durability.

Packaging & Storage:

- Packed in 200KG drums.
- Store in a dry, room-temperature environment.
- Non-flammable and non-hazardous; transport as non-dangerous goods.
- Shelf life: 12 months from production date. Re-inspection required after expiration.

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.