

Epoxy-Modified UV-Curable Silicone Resin

SK-SIUV-512H

Product Description:

● SK-SIUV-512H is a high-performance hybrid material combining epoxy functional groups with silicone chemistry. It integrates the high strength and superior adhesion of epoxy resins with the heat resistance, flexibility, and weatherability of silicones. This UV-curable resin enables rapid polymerization without oxygen inhibition, making it ideal for advanced optical encapsulation, medical implant devices, deep-layer electronic protection, and more.

Technical Specifications:

Test Item	Typical Data	Test standard/Instrument
Appearance	Colorless to light yellow transparent liquid	Visual inspection
Viscosity (mPa·s /25°C)	5000~8000	GB/T 10247-2008
Refractive Index (25°C)	1.49~1.51	GB/T 6488
Volatile content (%)	≤2	150°C/3H, atmospheric drying

Typical Applications:

- Encapsulation & Potting: LED chip encapsulation, PCB protective coatings, sensor potting.
- Optical Coatings: Anti-reflective films for lenses, optical fiber protection.
- 3D Printing: Precision electronic components, flexible circuit printing.
- Lightweight Materials: Matrix for carbon fiber-reinforced composites.

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.