Epoxy Modified UV-Curable Silicone Resin

SK-SIUV-512

Product Description:

●Epoxy modified UV-curable silicone resin is a high-performance hybrid material formed by the chemical bonding of epoxy functional groups with silicone. This material combines the high strength and excellent adhesion of epoxy resin with the heat resistance, flexibility, and weather resistance of silicone. It can be rapidly cured by ultraviolet (UV) or visible light, forming a dense three-dimensional cross-linked network.

Technical Specifications：

Test Item	Typical Data	Test Standard/Instrument
Appearance	Colorless to light yellow transparent liquid	Visual inspection
Viscosity (mm^2/s, 25℃)	2000~4000	GB/T 10247-2008
Refractive Index (25℃)	1.48~1.50	GB/T 6488
Volatile Content (%)	≤2.0	150℃/3H

Typical Applications:

● Encapsulation & Potting: LED chip encapsulation, PCB protective coatings, sensor potting.

●Optical Coatings: Lens anti-reflective coatings, optical fiber protection.

●3D Printing: Precision electronic components, flexible circuit printing.

●Lightweight Materials: Carbon fiber reinforced composite matrix.

Packaging and Storage:

● SK-SIUV-512 is packaged in 200KG iron drums.

●Store at room temperature in a dry place.

●This product is non-flammable and non-explosive, and should be transported as non-hazardous goods.

●Best used within 12 months from the production date. If expired, re-inspect before use.

Safety and Environmental Protection:

● Ensure proper protective equipment is worn before using this product. For specific details, please refer to the Material Safety Data Sheet (MSDS).

● Dispose of used packaging in accordance with local solid waste regulations.

Notes:

- The information provided in this document is based on reliable data from our company. Product specifications and performance may change without prior notice.
- The information is derived from laboratory and practical experience and is for reference only. Since conditions and methods of use are beyond our control, application testing is recommended before use.
- Some performance parameters of the product can be adjusted according to customer requirements. If needed, please contact our technical department engineers.