Phenyl Hydrogen Silicone Resin

SK-PHR-06-47

Product Description:

●This product is a silicone resin with a moderate phenyl content and active Si-H functional groups, featuring a precisely controlled refractive index (1.47±0.01). It is specifically designed for applications requiring optical transparency and high/low-temperature resistance. The balanced phenyl ratio provides excellent thermal stability, high light transmittance, and moderate reactivity, making it an ideal choice for LED encapsulation, optical adhesives, and precision coatings.

Technical Specifications：

Test Item	Typical Data	Test Standard/Instrument
Appearance	Colorless to light yellow transparent liquid	Visual inspection
Viscosity (mPa.s/25℃)	10~50	GB/T 10247-2008
Hydrogen Content (wt.%)	0.60~0.70	HG/T 4804-2015
Refractive Index (25℃)	1.46~1.48	GB/T 6488
Volatile Content (%)	≤ 3.0	Drying at 150℃/3H (ambient pressure)

Typical Applications:

● Electronics & Electrical: LED/COB encapsulation, PCB protective coatings, sensor potting

●High-Temperature Applications: Aerospace engine component coatings, automotive heat-resistant seals.

●Optical Components: Lenses, optical fiber coatings, display light-guide materials.

●Industrial Protection: High-temperature adhesives, anti-corrosion coating substrates.

Packaging and Storage:

● SK-PHR-06-47 is packaged in 200KG iron drums.

●tore at room temperature in a dry, dark 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.