Phenyl Hydrogen Silicone Resin

SK-PHR-02-5306

Product Description:

●Phenyl hydrogen silicone resin is a high-performance silicone material containing active Si-H functional groups. It combines the high-temperature resistance and high refractive index of phenyl groups with the high reactivity of hydrogen groups. Its unique molecular structure provides excellent cross-linking ability, thermal stability, and optical properties, making it ideal for LED encapsulation, electronic potting, and high-temperature protection applications.

Technical Specifications：

Test Item	Typical Data	Test Standard/Instrument
Appearance	Colorless to light yellow transparent liquid	Visual inspection
Viscosity (mm^2/s, 25℃)	5000~7000	GB/T 10247-2008
Hydrogen Content (wt.%)	0.23~0.27	HG/T 4804-2015
Refractive Index (25℃)	1.53~1.54	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-02-5306 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.