Technical Data Sheet

Phenyl Siloxane LF-PM13

Description:

Chemical Name: Triphenyl(trimethylsilyloxy)siloxane; Phenyl Trimethicone;

1,1,1,5,5,5-hexamethyl-3-phenyl-3-((trimethylsilyl)oxy)trisiloxane;Phenyl Trimethicone;

Methylphenyl Polysiloxane; Polyphenylmethylsiloxane (PPMS);

CAS No: 2116-84-9 (for the specific monomer) or 70131-69-0 (for the polymer)

Special Features:

Thermal Stability: High heat resistance (stable up to 250-300°C), making it suitable for extreme environments.

Typical Technical Properties:

Item	Viscosity (25° C, mm²/s)	Refractive Index (25°C, η D25)	Appearance	Cyclic Siloxane Content (D4/D5/D6)
LF-PM13	15	1.498	Colorless transparent liquid	<0.1%

Applications:

1. High-Performance Coatings: Acts as a critical resin modifier or additive for thermally stable paints and anti-corrosion industrial coatings, significantly improving durability under harsh environments;

2. Optical Materials: Utilized in LED encapsulation and optical lens coatings to maximize light transmittance and optimize the refractive index;

3. Electronics & Electrical: Serves as a high-purity dielectric coolant and a reliable conformal coating for printed circuit boards (PCBs), providing excellent moisture and thermal insulation;

4. Personal Care & Cosmetics: Formulated into premium hair and skincare products to provide superior gloss, lubricity, and a silky skin feel (primarily used in high-end formulations for its optical clarity);

5. Specialty Lubricants: Used as a high-performance base oil or additive to minimize friction and wear in precision machinery operating under extreme temperatures.

Package &Storage:

In 200kg drum, 950kg IBC.

Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened containers, shelf life is 30 months from the date of production. Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.