



Silfluo LR-163

Organic Silicone Resin

Description:

Silfluo LR-163 is a flexible organic silicone resin supplied at 50% solid content in toluene-containing solvent, providing continuous heat resistance, electrical insulation, and moisture resistance in the cured film. The flexible cure profile distinguishes LR-163 from hard/brittle silicone resin grades, making it suitable for flexible mica tape, flexible varnished glass cloth, and conformal coating applications where film flexibility is required alongside thermal and electrical performance.

Typical Technical Properties:

Silfluo Code:	LR-163	
Appearance	Colorless to light yellow liquid, opalescence is permitted	
Solid content (%)	50±1	
Curing Time (200°C on copper sheet, h):	≤2	
Viscosity (Flow Cup No. 4 at 25°C, s):	15-50	
Thermal Aging Resistance (200°C, h):	≥300	
Breakdown Strength (KV/mm,)	Standard Conditions (20±5°C):	≥ 55
	Elevated Temperature (200±2°C):	≥ 30
	After Humidity Exposure (24h at 20±5°C, 95±3% RH):	≥ 35
Volume Resistance (Ω.cm)	Standard Conditions(20±5°C)	≥ 10 ¹⁸
	Elevated Temperature (200±2°C)	≥10 ¹¹
	After Humidity Exposure (24h at 20±5°C, 95±3% RH):	≥10 ¹²

Application:

1. Flexible Electrical Insulation

Used for manufacturing flexible mica tapes, flexible mica sheets, and flexible varnished glass cloth.

2. Motor and Coil Impregnation

Used as an insulating varnish for motor coil impregnation and fiberglass sleeving coatings.

3. Electronic Encapsulation

Applied as a conformal coating or sealant for transistors and electronic components.

4. Heat-Resistant Coatings

Used as a binder for formulating flexible, high-temperature resistant coatings.

Use Reference:

Nanjing Silfluo New Material Co., Ltd.

Web: www.silfluosilicone.com Email: inquiry@silfluo.com

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The offered information of this docs is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are fully satisfactory for end use. Suggestions of use shall not be taken as inducements to infringe any patent. Please confirm with us prior to any problems.

Technical Data Sheet



www.silfluosilicone.com

1. Diluent Purity: Any diluents or solvents introduced must be anhydrous and free of acids, alkalis, amines, or other reactive compounds. Contamination will degrade adhesion, drying profile, and film properties.
2. Safe Handling and Ventilation: This product contains toluene and other flammable, volatile solvents. Explosion-proof ventilation must be maintained during processing and application. Keep away from open flames, ignition sources, and static electricity sources. Follow occupational safety practices and use appropriate personal protective equipment (PPE).
3. Recommended Solvents: Compatible and dilutable with ketones, esters, toluene, xylene, and similar solvents.

Package &Storage:

In 200kg drum.

Keep in cool, dry place. Avoid acid and alkali contact. Avoid direct sunlight. Transported as dangerous goods. The shelf life is 6 months(can still be used if the product is qualified after the expiration date).