



Room Temperature Vulcanizing (RTV) Liquid Fluorosilicone Rubber Silfluo LR-FL2100

Description:

LR-FL2100 is a liquid fluorosilicone rubber (FVMQ) characterized by its outstanding resistance to extreme temperatures, fuels, and oils, as well as excellent electrical insulation properties. It is designed to cure effectively at room temperature.

Typical Technical Properties:

Project	Test Method	FL3400
A component color	Visual Inspection	Pale yellow
B component color		
Component A Viscosity/Pa.s (Shear rate 10s-1)	Rotational Viscometer Method	350
Component B Viscosity/Pa.s (shear rate 10 s-1)		300
$25^{\circ}\text{C} \times 48\text{h}$		
Density /g/cm3	ASTM D792	1.42
Hardness /Shore A	ASTM D2240	35
Tensile strength /MPa	ASTM D412	8.1
Elongation at break /%	ASTM D412	320
Tear strength /kN/m	ASTM D624-B	14.5
Resilience /%	ASTM D1054	36
Compression set /% (177 °C \times 22h)	ASTM D395	21
Fuel C/% (25°C \times 72h)	ASTM D471	24.0

How to use:

LR-FL2100 liquid fluorosilicone rubber is supplied as a two-component system. Mix components A and B thoroughly in a 1:1 weight ratio, followed by vacuum deairing. The mixture will achieve full cure after 48 hours at room temperature ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$).

Technical Data Sheet



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Application:

LR-FL2100 is recommended for:

- Two-part RTV sealing and gasketing (FIPG) for assemblies requiring fuel/oil resistance;
- Potting / encapsulation of electrical and electronic components for elastic protection and electrical insulation in fuel/oil exposure environments;
- Sealing of connectors, cable entries, and sensor housings under temperature cycling and fluid exposure;
- Elastic gap filling and vibration damping in harsh environments across a wide temperature range;

Package & Storage:

Plastic drum packaging, A/B components each 20kg separate packaging.

Keep in cool, dry place. Avoid contact with compounds containing nitrogen, sulfur, phosphorus, and heavy metals to prevent product deterioration, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance. Avoid contact with compounds containing nitrogen (N), sulfur (S), phosphorus (P), and heavy metals, as these substances may inhibit the vulcanization process or lead to incomplete curing.