



## Addition-type Liquid Fluorosilicone Rubber LR-FL3400

### Description:

This product uses a platinum vulcanization system, with vinyl polyfluorosiloxane as the base material and hydrogen-containing polyfluorosiloxane as the crosslinking agent, and incorporates various fillers and additives to form a liquid polymer material.

It possesses high strength and resilience, is suitable for injection molding, and allows for rapid and convenient molding.

It also exhibits excellent oil resistance, solvent resistance, and high and low temperature resistance.

### Typical Technical Properties:

Project	Test Method	FL3400	FL3410
A component color	Visual Inspection	Pale yellow	
B component color			
Component A Viscosity/Pa.s (Shear rate 10s-1)	Rotational Viscometer Method	700	820
Component B Viscosity/Pa.s (shear rate 10 s-1)		650	770
After Primary Vulcanization At 120 °C × 10min			
Density /g/cm3	ASTM D792	1.43	1.42
Hardness /Shore A	ASTM D2240	39	59
Tensile strength /MPa	ASTM D412	10.5	8
Elongation at break /%	ASTM D412	410	230
Tear strength /kN/m	ASTM D624-B	15	13
Resilience /%	ASTM D1054	/	/
Compression set /% (177 °C × 22h)	ASTM D395	10	20
After Secondary Vulcanization 200 °C × 4h			
Density /g/cm3	ASTM D792	1.43	1.42
Hardness /Shore A	ASTM D2240	40	62

# Technical Data Sheet



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Tensile strength/MPa	ASTM D412	10	7
Elongation at break/%	ASTM D412	350	180
Tear strength/kN/m	ASTM D624-B	14	13
Resilience /%	ASTM D1054	41	43
Compression set /% (177 °C× 22h)	ASTM D395	5	7
Oil Resistance			
IRM903 /% (150 °C× 168h)	ASTM D471	3	2
Fuel C /% (60°C×168h)	ASTM D471	23	21
FAM B /% (60°C×168h)	ASTM D471	29	28

## How to use:

Liquid fluorosilicone rubber is available in two components, A and B, each packaged separately. For use, mix components A and B at a 1:1 mass ratio in a three-roll mill or planetary mixer until homogeneous, then degas. Afterward, mold, coat, and vulcanize. Alternatively, if using an injection molding machine, the vulcanization process can be directly operated according to the platform instructions. Customers should determine the optimal vulcanization temperature and time based on the product size and vulcanization method.

## 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.