



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.

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