



## Liquid Silicone Rubber LR-LSRVI

### Description and Feature:

Liquid silicone rubber LR-LSRVI is a medium and high voltage insulated liquid silicone rubber.

It supports extrusion molding and offers outstanding electrical performance and flame resistance, along with UV and ozone resistance.

**Test** :AB ratio is 1:1; 130°C x 5min x 15MPa.

### Typical Technical Properties:

| Item                                       | LSRVI-40E            | LSRVI-45E            | LSRVI-60E            | LSRVI-45             |
|--|----------------------|----------------------|----------------------|----------------------|
| Appearance                                 | Light grey/camel/red | Light grey           | Grey                 | White                |
| Viscosity A (Pa·s)                         | 250-400              | 70-100               | 1500-2000            | 300                  |
| Viscosity B (Pa·s)                         | 250-400              | 70-100               | 1500-2000            | 300                  |
| Hardness (Shore A)                         | 43-48                | 37-43                | 55-60                | 35-40                |
| Density (g/cm <sup>3</sup> )               | 1.11                 | 1.11                 | 1.15                 | 1.12                 |
| Tensile Strength (MPa )                    | 7                    | 7                    | 8.5                  | 8                    |
| Elongation ( % )                           | 500                  | 450                  | 550                  | 600                  |
| Tear Strength (kN/m )                      | 22                   | 22                   | 35                   | 30                   |
| Dielectric constant at 100HZ               | 3.03                 | 2.95                 | 3.3                  | 2.7                  |
| Dissipation factor at 100HZ                | 0.0016               | 0.0017               | 0.004                | 0.004                |
| Resistance to electric leakage and marking | 1A3.5                | 1A4.5                | 1A3.5                | 1A4.5                |
| Dielectric Strength (kV/mm)                | 24.3                 | 20.5                 | 22                   | 23                   |
| Volume Resistivity (Ω·cm)                  | 1.0*10 <sup>15</sup> | 1.0*10 <sup>15</sup> | 1.0*10 <sup>15</sup> | 1.0*10 <sup>15</sup> |
| Flame class                                | FV-0                 | FV-0                 | FV-0                 | UL94-V0              |
| Oxygen index                               | -                    | -                    | -                    | 29.50                |

**Application:** Ideal for manufacturing transformer sheaths, arc-extinguishing chamber covers, composite insulators, high-voltage insulation sheds, insulating sheaths, and related components.

### Package &Storage:

In 20kg or 200kg drum.

Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened containers, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.

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.