

Silopren* LSR 2651

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Description

Silopren LSR 2651 TP 3731 is a two-component liquid silicone rubber for injection moulding processes. **Silopren LSR 2651 TP 3731** shows in comparison to **Silopren LSR 2650** as non post-cure grade (NPC grade) a lower compression set after vulcanisation.

Key Features and Benefits

Vulcanisates consisting of **Silopren LSR 2651 TP 3731** are distinguished by the following properties:

- non post-cure
- high reactivity
- excellent thermal stability
- high stability and flexibility at low temperatures
- good rubber-like properties, high tear resistance
- long service life at dynamic stress
- high stability to ozone and ultraviolet light
- outstanding resistance to ageing,
- excellent dielectric behaviour over a wide range of temperatures,
- not readily combustible, does not melt or drip
- easy pigmentable with the LSR Colour Pastes

Typical Physical Properties

Typical properties of the rubber:

| | | A-part | B-part |
|--|---------------------------------|-------------------|-------------|
| Appearance | | translucent | translucent |
| Viscosity in Pa.s $\gamma = 10 \text{ s}^{-1}$ at 20 ° C | DIN 53018 | 450 | 450 |
| The pot-life of the mixture of the two components (closed vessel) at 20 ° C is three days. Increased temperatures reduce the pot-life. | | | |
| <u>Typical properties of the vulcanisate:</u> Mixing ratio of components A : B = 1 : 1. Vulcanisation : 10 min/175 °C | | | |
| Density | DIN 53 479 A | g/cm ³ | 1.12 |
| Shore A hardness | DIN 53 505 | | 50 |
| Tensile strength | DIN 53 504 S2 | N/mm ² | 9.5 |
| Elongation at break | DIN 53 504 S2 | % | 650 |
| Tear strength | ASTM D 624 die B | N/mm | 45 |
| Compression set | DIN 53 517 (22 h at 175 ° C) | % | 25 |

Potential Applications

Because of the outstanding properties **Silopren LSR 2651 TP 3731** is particularly suitable for the following elastomeric articles: sealing elements, O-rings, stoppers, diaphragms, keypads, bellows, vibration dampers, switch cover, spark plug boots, cable connectors s.o.

Processing Recommendations

Ready-to-use mixtures (of the components A and B) are fed directly to the injection moulding machine from the original containers by means of a metering and mixing unit. The mixture, consisting of the two components in the ratio 1:1, is injected into the heated mould. At mould temperatures of 140 - 200 ° C, the addition-crosslinking silicone rubber vulcanises free of dissociation products within a few seconds. High curing speed and ease of demoulding permit fully automated production of large

numbers of articles in short cycle times.

With **Silopren LSR 2651 TP 3731** it is possible to produce combined elements with a wide range of thermoplastic materials.

Silopren LSR 2651 TP 3731 should only be used for the production of technical articles.

Containers

Silopren LSR 2651 TP 3731 is available in 20 kg pails and 200 kg drums.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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