

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.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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