

Silopren™ LSR 2630

Description

Silopren LSR 2630 is a two-component liquid silicone rubber for injection molding processes. In comparison to Silopren LSR 2030, Silopren LSR 2630 shows a lower viscosity, improved tear resistance and a higher reactivity. Therefore, it is also possible to reduce the vulcanization temperature while maintaining a standard crosslinking rate. The increased reactivity does not affect the properties of the vulcanizate.

Key Features and Typical Benefits

Vulcanizates of Silopren LSR 2630 are typically distinguished by the following properties:

- High reactivity, lower viscosity, shorter cycle time
- 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 aging
- Excellent dielectric behavior over a wide range of temperatures
- Not readily combustible, does not melt or drip
- Easily pigmentable with LSR color pastes
- KTW approved

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	300	300
The pot-life of the mixture of the two components (closed vessel) at 20°C is usually three days. Increased temperatures reduce the pot-life.			
<u>Typical Properties of the Vulcanizate:</u>			
Mixing ratio of components A : B = 1 : 1.			
The mechanical properties were measured on test sheets (2 mm)			
Vulcanization: 10 min. 175 °C + 4 hrs 200 °C post-cure			

Typical Physical Properties, continued:

		A-part	B-part
Density	DIN 53 479 A	g/cm ³	1.10
Hardness/Durometer	Shore A		32
Tensile Strength	DIN 53 504 S2	N/mm ²	8
Elongation at Break	DIN 53 504 S2	%	700
Tear Strength	ASTM D 624 die B	N/mm	35
Compression Set	ISO 815	%	15

Typical data are average data and actual values may vary.

Typical data shall not be used as product specifications.

Potential Applications

Because of its outstanding properties, Silopren LSR 2630 is an excellent candidate to consider for the following elastomeric articles:

- Sealing elements
- O-rings
- Stoppers
- Keypads
- Pacifiers
- Baby teats
- Switch covers
- Swimming caps
- Vibration dampers
- Air vent flaps
- Cable connectors

Processing Recommendations

Ready-to-use mixtures (of the components A and B) are fed directly to the injection-molding 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 mold. At mold temperatures of 140 - 200 °C, the addition-crosslinking silicone rubber typically vulcanizes without any dissociation products within a few seconds. High curing speed and easy demolding can help enable the fully automated production of a large number of articles in short cycle times.

Regulatory Compliance

- Compositionally compliant with the requirements of 21 CFR 177.2600 – Rubber articles intended for repeated use and have been found, through testing of a representative sample, to meet the extractives limitations in 21 CFR 177.2600(e) and/or (f)⁽¹⁾
- The ingredients are listed in the BfR recommendation XV “Silicones” ⁽³⁾
- KTW approved
- In compliance with the requirements of the DVGW Working sheet W 270
- WRAS approved product (BS 6920)

(1) It is the responsibility of the user to determine that the final product complies with the extractive limitations and other requirements of 21 CFR 177.2600 under their specific manufacturing procedures.

(2) Please contact Product Stewardship and Regulatory Group for details

(3) Producer of the final article needs to test and confirm that the final product meets the extraction limits of BfR XV or corresponding EU legislation

Containers

Silopren LSR 2630 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.

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392	Brazil	Europe	China
Toll free*	+55 11 4534 9650	+390510924300	800 820 0202
+704 805 6946	Direct Number	Direct number	Toll free
Direct Number			+86 21 3860 4892
			Direct number
*All American countries	Mexico	India, Middle East & Africa	Japan
	+52 55 2169 7670	+ 91 44 71212207	+81 3 5544 3111
	Direct Number	Direct number*	Direct number
		*All Middle Eastern countries, Africa, India,	Korea
			+82 2 6201 4600

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