

Silopren™ LSR2620

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Description

Silopren LSR 2620 is a two-component liquid silicone rubber for injection moulding processes. **Silopren LSR 2620** shows in comparison to **Silopren LSR 2020** a lower viscosity, improved tear resistance and a higher reactivity. Therefore, it is also possible to reduce the vulcanisation temperature while maintaining a standard crosslinking rate. The increased reactivity does not affect the properties of the vulcanisate.

Key Features and Benefits

Vulcanisates consisting of **Silopren LSR 2620** are 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
- 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	150	150
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.			
Vulcanization: 10 min. 175°C + 4 hrs 200°C post-cure			
Density	DIN 53 479 A	g/cm ³	1.08
Shore A hardness	DIN 53 505		24
Tensile Strength	DIN 53 504 S2	N/mm ²	5.0
Elongation at Break	DIN 53 504 S2	%	600
Tear Strength	ASTM D 624 die B	N/mm	20
Compression Set	DIN 53 517 (22 h at 175 ° C)	%	20

Potential Applications

Because of the outstanding properties **Silopren LSR 2620** is particularly suitable for the following elastomeric articles: stoppers, vibration dampers, shoe inserts 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 2620** it is possible to produce combined elements with a wide range of thermoplastic materials.

Containers

Silopren LSR 2620 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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