

Silopren* LSR2610

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Description

Silopren LSR 2610 is a two-component liquid silicone rubber for injection moulding processes. **Silopren LSR 2610** shows in comparison to **Silopren LSR 2010** 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 2610** 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 s ⁻¹ at 20°C	DIN 53018	90	67
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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.

Typical Properties of the Vulcanizate:

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	1.04
Shore A hardness	DIN 53 505		16
Tensile Strength	DIN 53 504 S2	N/mm ²	2.9
Elongation at Break	DIN 53 504 S2	%	560
Tear Strength	ASTM D 624 die B	N/mm	9
Compression Set	DIN 53 517 (22 h at 175 ° C)	%	12

Potential Applications

Because of the outstanding properties **Silopren LSR 2610** 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 2610** it is possible to produce combined elements with a wide range of thermoplastic materials.

Containers

Silopren LSR 2610 is available in 20 kg pails and 200 kg drums.

Patent Status

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