

Silopren^{*} LSR 2250

Product Description **Silopren LSR 2250** is a flame retardant two-component liquid silicone rubber for injection moulding processes.

- Key Performance Properties** Vulcanizates consisting of **Silopren LSR 2250** are distinguished by the following properties:
- low flammability (LOI > 32 according ASTM D 2863-70)
 - low viscosity
 - excellent thermal stability
 - high stability and flexibility at low temperatures
 - good rubber-like properties
 - good resistance to mineral oils
 - outstanding resistance to ageing
 - excellent dielectric behaviour over a wide range of temperatures
 - not readily combustible, does not melt or drip
 - UL 94 V-0, file E224733, Momentive Performance Materials

Applications Because of the outstanding properties **Silopren LSR 2250** is particularly suitable for the production of the following articles: anode caps, spark plug boots and sealing elements.

Typical Product Data

		A- component	B- component
Colour		black	light-grey
Viscosity in Pas gamma = 10 s ⁻¹ at 20 ° C	DIN 53 018	300	300
The pot-life of the mixture of the two components (closed vessel) at 20 ° C is three days. Increased temperatures reduce the pot-life.			

Typical properties ^{*)} of the vulcanizate: Mixing ratio of components A : B = 1 : 1. Vulcanisation: 10 min 175 ° C			as cured	post cured 4h@200°C
Density	DIN 53 479 A	g/cm ³	1,33	1.33
Hardness	DIN 53 505	Shore A	59	59
Tensile strength	DIN 53 504 S2	N/mm ²	5.0	6.0
Elongation at break	DIN 53 504 S2	%	450	350
Tear strength	ASTM D 624 die B	N/mm	15	15
Comp. Set 22h at 175°C	ISO 815	%	25	12
Volume resistivity	DIN 53 482	ohm · cm		3 · 10 ¹⁵
Dielectric strength	DIN 53 481	kV/mm		25
Dielectric constant	DIN 53 483 (50 Hz)			3.1
Dissipation factor	DIN 53 483 (50 Hz)			0.003

^{*)} The typical data is based on limited amount of batches, after statistical evaluation the values might change slightly

Specifications Typical product data should not be used as specifications. Assistance and specifications are available by contacting Momentive Performance Materials.

Containers **Silopren LSR 2250** is available in 20 kg pails and 200 kg drums.

Instructions for Use 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 170 - 230 ° C, the addition-curable silicone rubber vulcanises free of by-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.

Silopren LSR 2250 should only be used for the production of technical articles for electrical applications.

Due to the special composition of **Silopren LSR 2250** this grade shows more abrasive properties than standard grades. Therefore it is recommended to use especially hardened equipment.

Handling and Safety Material Safety Data Sheets are available upon request from Momentive Performance Materials.

Storage Period Correctly stored in its original unopened container at room temperature (max. 27°C). **Silopren LSR 2250** has a shelf life of 540** days from the date of manufacturing. Containers, which have been opened, must be kept tightly closed afterwards.

**Please see also use-before/expiry date on product label and certificate.

Availability **Silopren LSR 2250** may be ordered from your regular sales contact or please call Momentive Performance Materials, Bergen-op-Zoom, Netherlands at 00800-4321-1000 to find out which is the nearest sales office to you.



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