

LSR 2040

Standard LSR

LSR 2010 TP 3740, LSR 2020 TP 3364, LSR 2030, LSR 2040, LSR 2050, LSR 2060, LSR 2070, LSR 2080 TP 3652

Product Description **LSR 2040** is a standard two-component liquid silicone rubber for injection moulding processes. Because of its excellent processing properties it is already used for a wide range of applications.

Key Performance Properties Vulcanisates consisting of **LSR 2040** are distinguished by the following properties:

- high thermal stability
- excellent stability and flexibility at low temperatures
- good rubber-like properties
- long service life at dynamic stress
- high stability to ozone and ultraviolet light
- outstanding resistance to ageing
- excellent dielectric behavior over a wide range of temperatures
- not readily combustible, does not melt or drip
- easy pigmentable with LSR Colour Pastes
- fulfill the requirement of KTW

Approval

- meets flame retardant class UL 94 HB
- WRAS approved product
- compliance with FDA and BfR Recommendations

Applications Because of the outstanding properties **LSR 2040** is particularly suitable for the following elastomeric articles: sealing elements, O-rings, stoppers, diaphragms, keypads, bellows, pacifiers, baby teats, respiratory devices, vibration dampers, nose pads, air vent flaps, cable connectors s.o.

Typical Product Data

Typical properties of the rubber:			
		A Component	B Component
Appearance		translucent	translucent
Viscosity in Pa.s $\gamma = 10 \text{ s}^{-1}$ at 20 ° C	DIN 53018	600	600
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 vulcanisate:			
Mixing ratio of components A : B = 1 : 1.			
Vulcanisation: 10 min. 175 °C + 4 hrs. 200 °C post cure			
Density	DIN 53 479 A	g/cm ³	1.12
Shore A hardness	DIN 53 505		40
Tensile strength	DIN 53 504 S2	N/mm ²	9.0
Elongation at break	DIN 53 504 S2	%	750
Tear strength	ASTM D 624 die B	N/mm	25
Compression set	DIN 53 517 (22 h at 175 ° C)	%	25

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

Containers **LSR 2040** 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-crosslinking silicone rubber vulcanises free of dissociation products within a few seconds. High curing speed and easy demoulding permit fully automated production of large numbers of articles in short cycle times.

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

Storage and Warranty Period Correctly stored in its original unopened container at room temperature. **LSR 2040** 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.



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