

# Silopren® LSR 4640

Silicone Rubber, LSR

Momentive Performance Materials Inc.

## Message:

LSR 4640 is a two-component liquid silicone rubber for injection moulding processes. The material performance is particularly characterised by high reactivity, low viscosity and high tear strength. The LSR 4640 enables particularly the production of parts for healthcare devices covering by USP Class VI such as sealing elements, O-rings, diaphragms, ear plugs, bellows, baby teats, respiratory devices, air vent flaps, tube connectors, catheters and mats.

### Key Features and Benefits

Vulcanisates consisting of LSR 4640 are distinguished by the following properties:

Low viscosity

Fast cure

High tear strength

Sterilisable with ethylene oxide, steam and gamma radiation

Long service life at dynamic stress

Neutral odour and taste

High recovery after puncture

High temperature stability

compliance with US Pharmacopoeia XXIII, Class VI (maximum contact time with human tissue 28 days)

General Information			
Features	Ethylene Oxide Sterilizable		
	Fast Cure		
	Good Tear Strength		
	Good Thermal Stability		
	High Reactivity		
	Low to No Odor		
	Low to No Taste		
	Low Viscosity		
	Radiation Sterilizable		
	Steam Sterilizable		
Uses	Connectors		
	Diaphragms		
	Medical/Healthcare Applications		
	Seals		
Agency Ratings	BfR Food Contact, Unspecified Rating		
	FDA 21 CFR 177.2600		
	ISO 10993		
	USP Class VI		
Forms	Liquid		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method

Density	1.12	g/cm <sup>3</sup>	DIN 53479
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	42		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	8.00	MPa	DIN 53504
Tensile Elongation (Break)	600	%	DIN 53504
Tear Strength <sup>1</sup>	45.0	kN/m	ASTM D624
Compression Set (175°C, 22 hr)	25	%	DIN 53517
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Post Cure Time (200°C)	4.0	hr	
Additional Information	Nominal Value	Unit	Test Method
Vulcanization (175°C)	10.0	min	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- <sup>2</sup>	Translucent		
-- <sup>3</sup>	Translucent		
Viscosity			DIN 53018
20°C <sup>4</sup>	350	Pa·s	
20°C <sup>5</sup>	350	Pa·s	
Pot Life (20°C)	4300	min	
NOTE			
1.	Die B		
2.	Part B		
3.	Part A		
4.	Part B		
5.	Part A		

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#### Recommended distributors for this material

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