

Silopren® LSR 2650

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 2650 is a two-component liquid silicone rubber for injection molding processes. In comparison to Silopren LSR 2050, Silopren LSR 2650 shows a lower viscosity, improved tear resistance and a higher reactivity. Therefore, it is also possible to reduce the vulcanization temperature while maintaining a standard crosslinking rate. The increased reactivity does not affect the properties of the vulcanizate.

Key Features and Benefits

Vulcanizates of Silopren LSR 2650 are typically distinguished by the following properties:

- High reactivity, lower viscosity, shorter cycle time
- Excellent thermal stability
- Biocompatible
- Sterilizable with ethylene oxide, steam and gamma radiation
- High stability and flexibility at low temperatures
- Good rubber-like properties, high tear resistance
- Long service life at dynamic stress
- High stability to ozone and ultraviolet light
- Outstanding resistance to aging
- Excellent dielectric behavior over a wide range of temperatures
- Easily pigmentable with LSR color pastes
- KTW approved

Potential Applications

Because of its outstanding properties, Silopren LSR 2650 is an excellent candidate to consider for the following elastomeric articles:

- Sealing elements
- O-rings
- Stoppers
- Diaphragms
- Keypads
- Bellows
- Catheters
- Pacifiers
- Baby teats
- Respiratory devices
- Vibration dampers
- Air vent flaps
- Switch cover
- Breast shields
- Nose pads
- Pressure cookers parts
- Spark plug boots
- Cable connectors
- Catheters, parts of medical technical equipment s.o.

General Information	
Features	Biocompatible
	Ethylene Oxide Sterilizable
	Good Colorability
	Good Stability
	Good Tear Strength
	Good Thermal Stability
	Good UV Resistance
	High Reactivity

Low Temperature Flexibility

Ozone Resistant

Radiation Sterilizable

Steam Sterilizable

Vibration Damping

Uses	Connectors
	Diaphragms
	Medical/Healthcare Applications
	Pacifiers
	Seals

Agency Ratings	BfR Food Contact, Unspecified Rating
	DVGW W270
	FDA 21 CFR 177.2600
	ISO 10993
	KTW Unspecified Rating
	USP Class VI
	WRAS Unspecified Rating

Forms	Liquid
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Processing Method	Injection Molding
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Physical	Nominal Value	Unit	Test Method
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Density	1.12	g/cm ³	DIN 53479
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Hardness	Nominal Value	Unit	Test Method
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Durometer Hardness (Shore A)	52		DIN 53505
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Elastomers	Nominal Value	Unit	Test Method
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Tensile Strength	10.0	MPa	DIN 53504
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Tensile Elongation (Break)	550	%	DIN 53504
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Compression Set (175°C, 22 hr)	25	%	DIN 53517
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Thermoset	Nominal Value	Unit	Test Method
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Thermoset Components			
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Part A	Mix Ratio by Weight: 1.0		
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Part B	Mix Ratio by Weight: 1.0		
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Post Cure Time (200°C)	4.0	hr	
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Additional Information	Nominal Value	Unit	Test Method
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Vulcanization (175°C)	10.0	min	
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Uncured Properties	Nominal Value	Unit	Test Method
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Color			
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-- 1	Translucent		
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-- 2	Translucent		
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Viscosity	DIN 53018		
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20°C ³	450	Pa·s
20°C ⁴	450	Pa·s
Pot Life (20°C)	4300	min

NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	

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