Silopren® LSR 2640

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 2640 is a two-component liquid silicone rubber for injection molding processes. In comparison to Silopren LSR 2040, Silopren LSR 2640 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 2640 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
Not readily combustible, does not melt or drip
Easily pigmentable with LSR color pastes
KTW approved
Potential Applications
Because of its outstanding properties, Silopren LSR 2640 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
Cable connectors
Parts of medical technical equipment

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		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.12	g/cm³	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 [1]	40.0	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			
-- [2]	Translucent		
-- [3]	Translucent		
Viscosity			DIN 53018

20°C [4]	350	Pa·s
20°C [5]	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

Recommended distributors for this material

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