

Silopren® LSR 2040

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 2040 is a standard two-component liquid silicone rubber for injection molding processes. Because of its excellent processing properties it can be considered for use in a wide range of applications.

Key Features and Benefits

Vulcanizates consisting of Silopren LSR 2040 typically are distinguished by the following properties:

- High thermal stability
- Excellent stability and flexibility at low temperatures
- Excellent biocompatibility
- Sterilizable with ethylene oxide, steam and gamma radiation
- Good rubber-like properties
- 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

Potential Applications

Because of it's outstanding properties, Silopren LSR 2040 is an excellent candidate to consider for use in 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
- ... and many more.

General Information	
Features	Biocompatible
	Ethylene Oxide Sterilizable
	Good Colorability
	Good Processability
	Good Stability
	Good Thermal Stability
	Good UV Resistance
	Low Temperature Flexibility
	Ozone Resistant
	Radiation Sterilizable
	Steam Sterilizable
	Vibration Damping

Uses	Connectors Diaphragms Pacifiers Seals		
Agency Ratings	BfR Food Contact, Unspecified Rating FDA 21 CFR 177.2600 ISO 10993 KTW Unspecified Rating USP Class VI WRAS Unspecified Rating		
UL File Number	E205753		
Forms	Liquid		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	DIN 53479
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	9.00	MPa	DIN 53504
Tensile Elongation (Break)	750	%	DIN 53504
Tear Strength ¹	25.0	kN/m	ASTM D624
Compression Set (175°C, 22 hr)	25	%	ISO 815
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
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 53019
20°C ⁴	600	Pa · s	
20°C ⁵	600	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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