Silopren® LSR 2050

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 2050 is a 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 2050 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 its outstanding properties, Silopren LSR 2050 is an excellent candidate to consider for use in the following elastomeric articles:
Sealing elements
O-rings
Stoppers
Diaphragms
Keypads
Bellows
Catheters
Pacifiers
Baby teats
Respiratory devices
Diving masks
Nose pads
Vibration dampers
Air vent flaps
Switch covers
Pressure cooker parts
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
	DVGW W270
	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/cm³	DIN 53479
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	51		DIN 53505
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	10.0	MPa	DIN 53504
Tensile Elongation (Break)	600	%	DIN 53504
Tear Strength [1]	35.0	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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China