

Silopren® LSR 4040

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 4040 is a two-component liquid silicone rubber for injection moulding processes. Silopren LSR 4040 can be used to produce medical technical articles with high transparency and excellent rubber elastic properties.

Key Features and Benefits

Vulcanisates consisting of Silopren LSR 4040 are distinguished by the following properties:

- Excellent biocompatibility
- High stability to ozone and ultraviolet light
- Neutral odor and taste
- Sterilisable with ethylene oxide, steam and gamma radiation
- Good transparency
- High thermal stability
- High recovery after puncture
- Easy pigmentable with the LSR Colour Pastes

Potential Applications

Because of the outstanding properties Silopren LSR 4040 is particularly suitable for the following elastomeric articles: sealing elements, diaphragms, ear plugs, bellows, baby teats, respiratory devices, air vent flaps, tube connectors, catheters, parts for medical technical equipment, mats s.o.

General Information	
Features	Biocompatible Ethylene Oxide Sterilizable Good Colorability Good Thermal Stability Good UV Resistance High Clarity Low to No Odor Low to No Taste Ozone Resistant 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
Appearance	Clear/Transparent
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	%	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	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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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



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