

Silopren® LSR 4050

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 4050 is a two-component liquid silicone rubber for injection processes. Silopren LSR 4050 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 4050 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 4050 is particularly suitable for the following elastomeric articles: sealing elements, diaphragms, ear plugs, bellows, respiratory devices, vibration dampers, pipette nipples, 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
	Vibration Damping
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)	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	%	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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