

Silopren® LSR 4080

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

LSR 4080 is a two-component liquid silicone rubber for injection moulding processes. The LSR 4080 enables particularly the production of parts for healthcare devices such as sealing elements, O-rings, diaphragms, ear plugs, bellows, baby teats, respiratory devices, air vent flaps, tube connectors, catheters and mats.

Key Features and Benefits

Vulcanizates consisting of LSR 4080 are distinguished by the following properties:

Good rubberlike properties

Excellent biocompatibility

Sterilisable with ethylene oxide, steam and gamma radiation

Long service life at dynamic stress

Neutral odour and taste

High recovery after puncture

High temperature stability

Easy pigmentable with LSR colour pastes

General Information			
Features	Biocompatible		
	Ethylene Oxide Sterilizable		
	Good Colorability		
	Good Thermal Stability		
	Low to No Odor		
	Low to No Taste		
	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		
Forms	Liquid		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	DIN 53479
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	79		DIN 53505

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	7.00	MPa	DIN 53504
Tensile Elongation (Break)	150	%	DIN 53504
Tear Strength ¹	5.00	kN/m	ASTM D624
Compression Set (175°C, 22 hr)	25	%	ISO 815
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	250	Pa·s	
20°C ⁵	300	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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