Silopren® LSR 4070

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 4070 is a two-component liquid silicone rubber for injection moulding processes. Silopren LSR 4070 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 4070 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 4070 is particularly suitable for the following elastomeric articles: sealing elements, respiratory devices, vibration dampers, tube connectors, pipette nipples, 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
	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	1.14	g/cm³	DIN 53479
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	70		DIN 53505
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	9.00	MPa	DIN 53504
Tensile Elongation (Break)	400	%	DIN 53504
Tear Strength [1]	20.0	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]	1000	Pa·s	
20°C [5]	1000	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

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