

Silopren® LSR 4020

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 4020 TP 3364 is a two-component liquid silicone rubber for injection moulding processes. Silopren LSR 4020 TP 3364 can be used to produce medical technical articles with high transparency and excellent rubber elastic properties.

Key Features and Benefits

Vulcanizates consisting of Silopren LSR 4020 TP 3364 are distinguished by the following properties:

- excellent biocompatibility
- high stability to ozone and ultraviolet light
- neutral odour 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 4020 TP 3364 is particularly suitable for the following elastomeric articles: sealing elements, catheters, vibration dampers, tube connectors, parts for medical technical equipment, mats

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		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm³	DIN 53479
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	22		DIN 53505

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	6.50	MPa	DIN 53504
Tensile Elongation (Break)	1000	%	DIN 53504
Tear Strength ¹	15.0	kN/m	ASTM D624
Compression Set (175°C, 22 hr)	20	%	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	200	Pa·s	
20°C ⁵	200	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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