

Silopren® LSR 3376/50

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 3376/50 liquid silicone rubber is a two-component liquid silicone rubber for injection molding processes. This material is an excellent candidate to consider for the manufacturing of elastomeric articles that require self-lubricating properties combined with a low compression set. This material is manufactured to have a low content of low molecular weight cyclic siloxanes (i.e. <350 ppm).

Key Features and Benefits

Vulcanizates consisting of Silopren LSR 3376/50 are typically distinguished by the following properties:

- self-lubricating properties
- low content of low molecular weight cyclic (i.e. D4-D8 of <350 ppm through process controls)
- low compression set without post-cure
- fast cure
- high thermal stability
- high stability and flexibility at low temperatures
- outstanding resistance to aging
- easy to color

Potential Applications

Because of its outstanding properties, Silopren LSR 3376/50 liquid silicone rubber is excellent candidate to consider for use in the following elastomeric articles:

- cable seals
- mat seals
- grommets
- gaskets
- plug seals

General Information			
Features	Fast Cure		
	Fast Molding Cycle		
	Good Colorability		
	Good Mold Release		
	Good Stability		
	Good Thermal Stability		
	Low Compression Set		
	Low Temperature Flexibility		
	Self Lubricating		
Uses	Gaskets		
	Grommets		
	Seals		
Forms	Liquid		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	JIS K6249
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		JIS K6249

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			JIS K6249
100% Strain	1.80	MPa	
200% Strain	3.30	MPa	
Tensile Strength	9.50	MPa	JIS K6249
Tensile Elongation (Break)	600	%	JIS K6249
Tear Strength			
-- 1	35.0	kN/m	JIS K6252
-- 2	43.0	kN/m	ASTM D624
Compression Set (180°C, 22 hr)	16	%	JIS K6249
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Additional Information	Nominal Value	Unit	
Vulcanization (170°C)	10.0	min	
Fluid Content			
-- 3	3.0	%	
-- 4	3.0	%	
Uncured Properties	Nominal Value	Unit	
Color			
-- 5	White		
-- 6	White		
Viscosity			
20°C ⁷	500	Pa · s	
20°C ⁸	500	Pa · s	
Pot Life (20°C)	4300	min	
NOTE			
1.	Crescent		
2.	Die B		
3.	Part B		
4.	Part A		
5.	Part B		
6.	Part A		
7.	Part B		
8.	Part A		

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