

Silopren® LSR 3596/35

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 3596/35 is a two-component liquid silicone rubber for injection molding processes. This material is an excellent candidate to consider for the manufacture of elastomeric articles requiring self-lubricating properties. The self-lubricating effect is achieved by a fluid which exudes out of the vulcanizate over an extended period of time. It typically starts between a few hours and one day after vulcanization. Silopren LSR 3596/35 shows an excellent compression set after vulcanization without post-curing.

Key Features and Benefits

Vulcanizates consisting of Silopren LSR 3596/35 liquid silicone rubber are typically distinguished by the following properties:

ultra-low compression set without post-cure

self-lubricating properties

low viscosity

fast cure

low modulus

high thermal stability

increased crack resistance

outstanding resistance to aging

easy to color

Potential Applications

Because of the outstanding properties, Silopren LSR 3596/35 liquid silicone rubber is an excellent candidate to consider for use in wire harness applications for 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 Thermal Stability		
	Low Compression Set		
	Low Viscosity		
	Self Lubricating		
Uses	Gaskets		
	Grommets		
	Seals		
Forms	Liquid		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	DIN 53479
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore A)	34		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
50% Strain	0.500	MPa	
100% Strain	0.800	MPa	
200% Strain	1.50	MPa	
300% Strain	2.30	MPa	
Tensile Strength	8.50	MPa	DIN 53504
Tensile Elongation (Break)	700	%	DIN 53504
Tear Strength ¹	31.0	kN/m	ASTM D624
Compression Set (175°C, 22 hr)	15	%	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		
Shelf Life (< 27°C)	77	wk	
Additional Information	Nominal Value	Unit	Test Method
Vulcanization (175°C)	10.0	min	
Fluid Content			
-- ²	5.0	%	
-- ³	5.0	%	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	White		
-- ⁵	White		
Viscosity			DIN 53018
20°C ⁶	420	Pa · s	
20°C ⁷	510	Pa · s	
Pot Life (20°C)	4300	min	
NOTE			
1.	Die B		
2.	Part B		
3.	Part A		
4.	Part B		
5.	Part A		
6.	Part A		
7.	Part B		

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