Silopren® LSR 3596/30

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 3596/30 is a two-component liquid silicone rubber for injection moulding 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 3596/30 shows an excellent compression set after vulcanization without post-curing.
Key Features and Benefits
Vulcanizates consisting of Silopren LSR 3596/30 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 3596/30 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	1.10	g/cm^3	DIN 53479
Hardness	**Nominal Value**	**Unit**	**Test Method**

Durometer Hardness (Shore A)	30		DIN 53505
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			DIN 53504
50% Strain	0.400	MPa	
100% Strain	0.600	MPa	
200% Strain	1.20	MPa	
300% Strain	1.90	MPa	
Tensile Strength	8.00	MPa	DIN 53504
Tensile Elongation (Break)	700	%	DIN 53504
Tear Strength [1]	26.0	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]	370	Pa·s	
20°C [7]	440	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 B		
7.	Part A		

Recommended distributors for this material

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