

Silopren® LSR 1640

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR® 1640 is a two-component liquid silicone rubber for injection molding processes. LSR 1640 shows in comparison to LSR 1640 a higher productivity, higher transparency, less yellowing and low volatile contents. With this low viscosity LSR, it would be possible to increase productivity by reduce injection time and total cycle time. Also, it is easier to inject into the cavity of the mold which is more complicated designed. In addition, higher transparency and less volatile content make it most suitable for consumer products.

Key Features and Benefits

Vulcanisates consisting of LSR 1640 are distinguished by the following properties:

High flowability, low viscosity and short injection time.

Low volatiles content

Fast cure

Excellent mold release

Excellent Thermal stability

Good rubber-like properties

Excellent compression set

Excellent resilience

High stability to ozone and ultraviolet light

Outstanding resistance to ageing

Not readily combustible, does not melt or drip

Easy-pigmentable with LSR Colour Pastes fulfill the requirement of KTW

Potential Applications

Because of the outstanding properties, LSR 1640 is particularly suitable for the following elastomeric articles: sealing elements, O-rings, stoppers, diaphragms, keypads, bellows, vibration dampers, air vent flaps, switch covers, pressure cookers parts, cable connectors s.o.

General Information	
Features	Fast Cure
	Good Colorability
	Good Mold Release
	Good Thermal Stability
	Good UV Resistance
	High Flow
	Low Viscosity
	Ozone Resistant
	Resilient
Uses	Connectors
	Diaphragms
	Seals
	Switches
Agency Ratings	BfR Food Contact, Unspecified Rating
	FDA 21 CFR 177.2600
	WRAS Unspecified Rating
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)	41		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	6.50	MPa	DIN 53504
Tensile Elongation (Break)	450	%	DIN 53504
Tear Strength ¹	12.0	kN/m	ASTM D624
Compression Set (175°C, 22 hr)	10	%	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		
Shelf Life (< 27°C)	77	wk	
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	120	Pa·s	
20°C ⁵	120	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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