

# Silopren® LSR 2003

Silicone Rubber, LSR

Momentive Performance Materials Inc.

## Message:

LSR2003 liquid silicone rubber is a two-component product formulated for use in liquid injection molding to produce elastomeric parts where low-durometer is a key requirement. LSR2003 elastomer is clear, but easily pigmentable with Momentive Performance Materials masterbatch colors. LSR2003 elastomer offers a convenient 1:1 mix ratio and releases easily from molds. Cure time is rapid, generally 10 to 40 seconds at 150°C (302°F) - 204°C (400°F), depending on part size, configuration, and molding temperature.

### Key Features and Benefits

LSR2003 liquid silicone rubber is distinguished by the following properties:

Low-Durometer

Non-Tackiness

Sensory Characteristics (Added Cushioning)

Rapid molding cycle times - > 20-60 seconds

Convenient 1:1 Mix Ratio

### Potential Applications

The combination of low-durometer and non-tackiness allows the product to be used in consumer goods applications such as:

Corn Pads

Heel Inserts

Shoe Insole

Vibration dampers

General Information		
Features	Fast Cure	
	Fast Molding Cycle	
	Good Colorability	
	Good Mold Release	
	Low Hardness	
	Tack Free	
	Vibration Damping	
Uses	Footwear	
Agency Ratings	USP Class VI	
Appearance	Clear/Transparent	
Forms	Liquid	
Processing Method	Liquid Injection Molding (LIM)	
Physical	Nominal Value	Unit
Density	1.05	g/cm <sup>3</sup>
Hardness	Nominal Value	Unit
Durometer Hardness (Shore OO)	54	
Elastomers	Nominal Value	Unit
Tensile Stress (100% Strain)	0.210	MPa
Tensile Strength	1.97	MPa
Tensile Elongation (Break)	500	%
Tear Strength <sup>1</sup>	4.10	kN/m

Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Post Cure Time (177°C)	2.0	hr
Uncured Properties	Nominal Value	Unit
Color		
-- <sup>2</sup>	Clear/Transparent	
-- <sup>3</sup>	Clear/Transparent	
Pot Life (20°C)	4300	min
NOTE		
1.	Die B	
2.	Part B	
3.	Part A	

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

