

# Silopren® LSR 7060

Silicone Rubber, LSR

Momentive Performance Materials Inc.

## Message:

Silopren LSR 7060 liquid silicone rubber is a two-component, high-transparency, medium-hardness, low-viscosity, fast-cure speed and ultra clear liquid silicone rubber (LSR). Providing good optical clarity, Silopren LSR 7060 liquid silicone rubber combines typical LSR properties, such as high temperature stability and flowability, with excellent UV and blue light stability. As a result, molded lenses produced using this material can exhibit excellent durability and maintain optical clarity, even if exposed to high temperatures or UV light. Due to its high flowability, Silopren LSR 7060 liquid silicone rubber can help enable excellence in manufacturing complex and micro-structure optical lenses, even in large quantities, utilizing the injection and compression molding processes.

### Key Features and Typical Benefits

Optical Clarity

Durability

Design Freedom

Productivity

Potential Applications

Interior and exterior lighting - lenses and other illumination optics

Automotive lighting - lenses and light guides

Electronics - Mobile phones, flash lenses, sensing lenses, light guides and other optics

Solar - primary optics for concentrating PVs

General Information	
Features	Durable
	Fast Cure
	Good Color Stability
	Good Colorability
	Good Crack Resistance
	Good Mold Release
	Good Processability
	Good Thermal Stability
	Good UV Resistance
	High Clarity
	High Flow
	High Heat Resistance
	Low Viscosity
	Medium Hardness
Uses	Automotive Applications
	Electrical/Electronic Applications
	Lenses
	Lighting Applications
	Solar Panels
UL File Number	E56745
Appearance	Clear/Transparent

Forms	Liquid		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm <sup>3</sup>	JIS K6249
Molding Shrinkage - Flow	2.1	%	JIS K6249
Water Absorption (Equilibrium)	< 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			JIS K6249
Shore A	60		
Shore D	18		
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	6.50	MPa	JIS K6249
Tensile Elongation (Break)	340	%	JIS K6249
Tear Strength	11.0	kN/m	JIS K6249
Thermal	Nominal Value	Unit	
CLTE - Flow (40 to 90°C)	2.9E-4	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.410		
Transmittance			
2000 μm, 400 nm	93.0	%	
2000 μm, 700 nm	94.0	%	
Haze	< 1.0	%	ASTM D1003
Abbe Number	50.0		
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Uncured Properties	Nominal Value	Unit	
Color			
-- 1	Clear/Transparent		
-- 2	Clear/Transparent		
Viscosity			
23°C <sup>3</sup>	33	Pa·s	
23°C <sup>4</sup>	46	Pa·s	
23°C <sup>5</sup>	58	Pa·s	
Curing Time (130°C)	0.25	hr	
Pot Life (23°C)	2900	min	
NOTE			

1.	Part B
2.	Part A
3.	Part B
4.	Mixed
5.	Part A

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