

LIM™ 6061

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

LIM6061 is the next generation in 60-durometer liquid silicone rubber. It is a two-component product formulated for use in liquid injection molding to produce high performance parts. It is clear, but easily pigmentable with Momentive masterbatch colors. The combination of excellent tear strength and very high tensile strength makes this product suitable for a wide variety of applications. Mechanical parts such as connector inserts, seals, flexible mounds, and valve parts can be made readily from LIM6061 liquid silicone rubber.

Key Features and Benefits

High clarity for excellent visibility

Excellent tear strength

Convenient 1:1 mix ratio for use with automatic equipment

Rapid cure time: 10 to 40 seconds depending upon part size, configuration and molding temperature

Wide range of molding temperatures: 150°C (302°F) to 232°C (450°F)

Excellent release from metal molds

High Bayshore resilience

Potential Applications

sports goggles and masks

health care profiles

camera parts

coating metal rolls

General Information	
Features	Fast Cure
	Good Mold Release
	Good Tear Strength
	High Clarity
	High Tensile Strength
Uses	Camera Applications
	Coating Applications
	Connectors
	Medical/Healthcare Applications
	Seals
	Sporting Goods
	Valves/Valve Parts
Agency Ratings	BfR Food Contact, Unspecified Rating
	FDA 21 CFR 177.2600
	USP Class VI
UL File Number	E205753
Appearance	Clear/Transparent
Forms	Liquid
Processing Method	Liquid Injection Molding (LIM)

Elastomers	Nominal Value	Unit
Bayshore Resilience		
-- ¹	63	%
-- ²	65	%
Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Cured Properties	Nominal Value	Unit
Shore Hardness		
Shore A ³	60	
Shore A ⁴	60	
Tensile Modulus		
100% Secant ⁵	2.40	MPa
100% Secant ⁶	2.70	MPa
Tensile Strength		
-- ⁷	6.60	MPa
-- ⁸	9.40	MPa
Tensile Elongation at Break		
-- ⁹	400	%
-- ¹⁰	470	%
Compression Set ¹¹ (177°C, 22.0 hr)	27	%
Tear Strength		
Die B ¹²	6.60	kN/m
Die B ¹³	40.3	kN/m
NOTE		
1.	Press Cure 17 min @ 177°C (350°F)	
2.	Postbaked 4 hr @ 205°C (400°F)	
3.	Postbaked 4 hr @ 205°C (400°F)	
4.	Press Cure 17 min @ 177°C (350°F)	
5.	Press Cure 17 min @ 177°C (350°F)	
6.	Postbaked 4 hr @ 205°C (400°F)	
7.	Postbaked 4 hr @ 205°C (400°F)	
8.	Press Cure 17 min @ 177°C (350°F)	
9.	Postbaked 4 hr @ 205°C (400°F)	
10.	Press Cure 17 min @ 177°C (350°F)	
11.	Press Cure 17 min @ 177°C (350°F)	
12.	Postbaked 4 hr @ 205°C (400°F)	
13.	Press Cure 17 min @ 177°C (350°F)	

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