

LIM™ 6071

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

LIM6071 is the next generation in 70-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 mounts, and valve parts can be made readily from LIM6071 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

Metal roll coatings.

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	65	%
-- ²	66	%
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	
Uncured Properties	Nominal Value	Unit
Color		
-- ³	Clear/Transparent	
-- ⁴	Clear/Transparent	
Density		
-- ⁵	1.12	g/cm ³
-- ⁶	1.12	g/cm ³
Cured Properties	Nominal Value	Unit
Shore Hardness		
Shore A ⁷	70	
Shore A ⁸	70	
Tensile Modulus		
100% Secant ⁹	3.00	MPa
100% Secant ¹⁰	3.20	MPa
Tensile Strength ¹¹	7.90	MPa
Tensile Elongation at Break		
-- ¹²	330	%
-- ¹³	370	%
Compression Set ¹⁴ (177°C, 22.0 hr)	40	%
Tear Strength		
Die B ¹⁵	36.8	kN/m
Die B ¹⁶	40.4	kN/m
NOTE		
1.	Press Cure 17 min @ 177°C (350°F)	
2.	Postbaked 4 hr @ 205°C (400°F)	
3.	Part B	
4.	Part A	
5.	Part B	
6.	Part A	
7.	Postbaked 4 hr @ 205°C (400°F)	
8.	Press Cure 17 min @ 177°C (350°F)	
9.	Press Cure 17 min @ 177°C (350°F)	

10.	Postbaked 4 hr @ 205°C (400°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)
14.	Press Cure 17 min @ 177°C (350°F)
15.	Postbaked 4 hr @ 205°C (400°F)
16.	Press Cure 17 min @ 177°C (350°F)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

