

LIM™ 6010

Silicone Rubber, LSR
Momentive Performance Materials Inc.

Message:

LIM6010 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. LIM6010 elastomer is clear, but easily pigmentable with Momentive masterbatch colors. The combination of low-durometer and non-tackiness allows the product to be used in such consumer goods applications as corn pads and heel inserts, where 'soft touch' sensory characteristics are important. LIM6010 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
- Low-Durometer
- Non-Tackiness
- Sensory Characteristics (Added Cushioning)
- Rapid molding cycle times - > 20-60 seconds
- Convenient 1:1 Mix Ratio
- Outstanding Thermal Cycling Performance
- Potential Applications
- The combination of low-durometer and non-tackiness allows the product to be used in such consumer goods applications, where 'soft touch' sensory characteristics are important.
- Corn Pads
- Heel Inserts

General Information		
Features	Fast Cure	
	Good Mold Release	
	Low Hardness	
	Tack Free	
Uses	Footwear	
	Soft Touch Applications	
Agency Ratings	BfR Food Contact, Unspecified Rating	
	ISO 10993	
	USP Class VI	
UL File Number	E205753	
Appearance	Clear/Transparent	
Forms	Liquid	
Processing Method	Liquid Injection Molding (LIM)	
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		
-- 1	Clear/Transparent	
-- 2	Clear/Transparent	
Density		
-- 3	1.05	g/cm ³
-- 4	1.05	g/cm ³
Viscosity		
-- 5	30	Pa · s
-- 6	30	Pa · s
Cured Properties	Nominal Value	Unit
Shore Hardness		
Shore A ⁷	10	
Shore A ⁸	15	
Tensile Modulus		
100% Secant ⁹	0.250	MPa
100% Secant ¹⁰	0.380	MPa
Tensile Strength		
-- 11	2.76	MPa
-- 12	3.10	MPa
Tensile Elongation at Break		
-- 13	440	%
-- 14	510	%
Tear Strength		
Die B ¹⁵	5.62	kN/m
Die B ¹⁶	10.5	kN/m
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	
5.	Part B	
6.	Part A	
7.	As Molded 30 sec @ 177°C (350°F)	
8.	Postbaked 1 hr @ 177°C (350°F)	
9.	As Molded 30 sec @ 177°C (350°F)	
10.	Postbaked 1 hr @ 177°C (350°F)	
11.	As Molded 30 sec @ 177°C (350°F)	
12.	Postbaked 1 hr @ 177°C (350°F)	
13.	Postbaked 1 hr @ 177°C (350°F)	
14.	As Molded 30 sec @ 177°C (350°F)	
15.	As Molded 30 sec @ 177°C (350°F)	

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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

