

## LIM™ 6010

### Description

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

### Typical Physical Properties

<u>Uncured Properties</u>	<u>LIM6010-A</u>	<u>LIM6010-B</u>
Appearance	Clear	Clear
Specific Gravity	1.05	1.05
Viscosity (cps)	30,000	30,000

<b><u>Cured Properties</u></b> <b><u>(75 mils thick)</u></b>	<b><u>As Molded 30 secs @ 177°C</u></b>	<b><u>Postbaked 1 hr @ 177°C /</u></b>
	<b><u>/350°F</u></b>	<b><u>350°F</u></b>
Hardness, Shore A Durometer	10	15
Tensile Strength, psi (MPa)	400 (2.76)	450 (3.10)
Elongation, %	510	440
Tensile Modulus, 100%, psi (MPa)	36 (0.25)	55 (0.38)
Tear Strength, Die B, lb/in (KN/M)	32 (32.5.62)	60 (10.51)

Typical product data values should not be used as specifications.

Assistance and specifications are available by contacting Momentive Performance Materials.

### **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

### **Processing Recommendations**

Ready-to-use mixtures (of the components A and B) are fed directly to the injection-molding machine from the original containers by means of a metering and mixing unit. The mixture, consisting of the two components in the ratio 1:1, is injected into the heated mold. At mold temperatures of 170 - 230°C, the addition-crosslinking silicone rubber typically vulcanizes, without any dissociation products, within a few seconds. High curing speed and easy demolding can help enable fully automated production of a large number of articles in short cycle times.

## Regulatory Compliance

- A representative sample of an analogous product to LIM 6010 met the requirements of USP Class VI and ISO 10993 under Good Laboratory Practices (GLP).
- Listed as UL 94 HB (File No. E205753)
- The ingredients are listed in the BfR recommendation XV “Silicones” <sup>(1)</sup>
- Compositionally compliant with 21 CFR 177.2600 – Rubber articles intended for repeated use<sup>(2)</sup>

(1) Producer of the final article needs to test and confirm that the final product meets the extraction limits of BfR XV or corresponding EU legislation.

(2) It is the responsibility of the user to determine that the final product complies with the extractive limitations and other requirements of 21 CFR 177.2600, under their specific manufacturing procedures.

## Patent Status

Standard copy to come

## Product Safety, Handling and Storage

Standard copy to come

## Limitations

Standard copy to come

## Contact Information

Email

[commercial.services@momentive.com](mailto:commercial.services@momentive.com)

## Telephone

**Americas**

**Latin America**

**EMEAI- Europe, Middle  
East, Africa & India**

**ASIA PACIFIC**

+1 800 295 2392	<b>Brazil</b>	<b>Europe</b>	<b>China</b>
Toll free*	+55 11 4534 9650	+390510924300	800 820 0202
+704 805 6946	Direct Number	Direct number	Toll free
Direct Number			+86 21 3860 4892
			Direct number
*All American countries	<b>Mexico</b>	<b>India, Middle East &amp; Africa</b>	<b>Japan</b>
	+52 55 2169 7670	+ 91 44 71212207	+81 3 5544 3111
	Direct Number	Direct number*	Direct number
		<b>*All Middle Eastern countries, Africa, India,</b>	<b>Korea</b>
			+82 2 6201 4600

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

#### DISCLAIMER:

**THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.** Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under

end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

\*LIM™是 Momentive Performance Materials Inc. 的商标

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.