

LIM™ 6030

Description

LIM 6030 liquid silicone rubber is a 2-component product formulated for use in liquid injection molding to high performance elastomeric 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 LIM 6030 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 205°C (400°F)
- Excellent release from metal molds

Typical Physical Properties

<u>Cured Properties</u>	<u>As Molded 30 sec @</u>	<u>Postbaked 1 hr @</u>
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	<u>177°C (350°F)</u>	<u>204°C (400°F)</u>
Hardness, Shore A durometer	30	35
Tensile Strength, psi (MPa)	1200 (8.3)	1300 (9.0)
Elongation, %	750	675
Tensile Modulus, 100% psi (Mpa)	120 (0.83)	120 (0.83)
Tear Strength, ppi (KN/M)	160 (28.1)	182 (31.9)
Compression Set, % (22 hrs. @ 177°C/(350°F))	50	35
Bashore, %	51	46
<u>After Heat Aging 168 hr @ 177°C/350°F</u>		
Hardness, Shore A change	+2 pts.	0 pts.
Tensile change	+2%	6%
Elongation, change	-1%	-7%
Tear Strength, change	+37%	+13%
Bashore change	-3 pts.	+2 pts.
<u>Electrical</u>		
Dielectric Strength, V/mil	470	
Dielectric Constant @ 1000 Hz	3.17	
Dissipation Factor @ 1000 HZ	0.0001	
Volume Resistivity, ohm-cm	6.2 x 10 ¹⁴	

Typical product data values should not be used as specifications.
Assistance and specifications are available by contacting Momentive.

Potential Applications

- sports goggles and masks
- health care equipment
- camera parts

- coating metal rolls

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-cross linking 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 6030 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” ⁽¹⁾
- Compositionally compliant with 21 CFR 177.2600 – Rubber articles intended for repeated use⁽²⁾

(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

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at

www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392	Brazil	Europe	China
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	Mexico	India, Middle East & Africa	Japan
	+52 55 2169 7670	+ 91 44 71212207	+81 3 5544 3111
	Direct Number	Direct number*	Direct number
		*All Middle Eastern countries, Africa, India,	Korea
			+82 2 6201 4600

For literature and technical assistance, visit our website at: www.momentive.com

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