

LIM* 6041

Description

LIM6041 liquid silicone rubber is a 2 component Radio - Opaque product formulated with Barium Sulfate. It is used in liquid injection molding of high performance elastomeric parts. The combination of excellent tear strength and very high tensile strength makes this product suitable for a wide variety of applications in medical devices where molded parts can be detected under X-ray due it's radio opacity.

Key Features and Benefits

- Barium Sulfate filled for excellent radio - opacity
- 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: 1500C (3020F) to 2050C (4000F)
- Excellent release from metal molds

Typical Physical Properties

<u>Property</u>	<u>LIM 6041</u>
Color	White
Specific Gravity	1.19

<u>Properties</u>	<u>Mixed A & B</u>
Cure rate (Monsanto Rheometer - MDR2000) @ 177°C (350°F)	
Torque, max., in-lbs.	13.50
T-02 seconds	7
Peak rate, in./lb/min.	101
T-90, seconds	16
<u>Cured Properties</u>	<u>As Molded 30 sec / 177°C (350°F)</u>
Hardness, Shore A durometer	44
Tensile Strength, psi (MPa)	1032 (7.14)
Tear Strength, ppi (KN/M)	193 (33.9)

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

Potential Applications

The combination of excellent tear strength and radio - opacity, it is suitable for applications in medical devices such as wound drain catheters, where molded parts can be detected under X-ray.

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 Silopren LIM6041 met the requirements of USP Class VI.
- 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

For product prices, availability, or order placement, contact our customer service at [Momentive.com/CustomerService/](https://www.momentive.com/CustomerService/)

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

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