



Baysilone® LSR4030

Liquid Silicone Rubber

Product Description

Baysilone® LSR 4030 liquid silicone rubber is a two-component product formulated for use in liquid injection molding to produce high performance elastomeric parts. It is transparent, but easily pigmentable using Momentive Performance Materials LIM color masterbatches. Baysilone® LSR 4030 offers convenient 1:1 mix ratio and rapid cure time for manufacturing productivity.

Key Performance Properties

- | High clarity for excellent visibility
- | High tensile strength
- | Convenient 1:1 mix ratio for use with automatic equipment
- | Rapid cure time depending upon part size, configuration, and molding temperature
- | Excellent release from metal molds

Viscosity in cps at shear gradient $\gamma = 10s^{-1}$	400,000
Density in g/cm ³	1.11
Appearance	transparent
Pot-life at room temperature 68°F / closed vessel	3 days

Typical Properties Data

TYPICAL PRODUCT DATA

Mechanical properties of Baysilone LSR were obtained from standard 2-mm thick molded sheets using the following process parameters:

A/B Blend Ratio		1/1
Molding Conditions		10 minutes @ 175°C
Post Bake Conditions		4 hours @ 200°C
		Post-cured 4 hr/200°C (392°F)
Shore A hardness		33
Tensile strength	psi	1160
	MPa	8.0
Elongation at break	%	700
Tear Strength	ppi	100
	N/mm	17.5
Compression set 22 h/175°C	%	15

The dielectric properties were determined on specimens cured for 10 minutes at 175°C and postcured for 4 hours at 200°C.

Volume resistivity	$\Omega \cdot cm$	1E 16
Dielectric strength	kV/mm	24
Dielectric constant	ϵ_r 50 Hz	3.3

Dissipation factor	$\tan \delta / 50 \text{ Hz}$	0.0025
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Specifications

Typical product data values should not be used as specifications. Assistance and specifications are available by contacting Momentive Performance Materials at 800/255-8886.

USP CLASS VI STATUS:

LSR4030 meets the requirements for biocompatibility for USP Class VI Plastics and ISO 10993, Part 1 testing requirements for less than 30 days human contact time. Compliance is based on testing a single batch which is considered representative of production. It is the responsibility of the end-user to verify compliance of the final fabricated product. Questions on the above testing should be directed to the Product Regulatory Department of Momentive Performance Materials. The user has sole responsibility for determining the suitability of this product for any application.

Handling and Safety

Material Safety Data Sheets are available upon request from Momentive Performance Materials. Similar information for solvents and other chemicals used with Momentive Performance Materials products should be obtained from your suppliers. When solvents are used, proper safety precautions must be observed.

Storage & Warranty Period

Baysilone LSR should be stored in a cool place. Stored in their original sealed containers, the separate components have a shelf life of at least six months. Containers which have been opened should be firmly sealed for storage.

Availability

Products may be ordered from Momentive Performance Materials, Waterford, NY, 12188, or the Momentive Performance Materials sales office nearest you.

Government Requirement

Prior to considering use of a Momentive Performance Materials product in fulfilling any Government requirement, please contact the Government and Trade Compliance office at (413) 448-4624.

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