

ELASTOSIL® LR 3003/60 US

Liquid Silicone Rubber

Characteristics

ELASTOSIL® LR 3003/60 US Liquid Silicone Rubber is a 60 durometer, commercial grade liquid silicone rubber designed for liquid injection molding.

Special characteristics

- ELASTOSIL® LR 3003/60 US was tested according to the recommendations of the US Pharmacopoeia and meets the requirements of Class VI.
- ELASTOSIL® LR 3003/60 US contains those ingredients which are suitable for food contact.

Under Title 21 "Food and Drugs" Part 177.2600, "Rubber articles intended for repeated use," because this regulation contains limitations, compliance to the regulation is the responsibility of the user

Physical Characteristics

- Excellent tensile strength
- Good elongation
- Good tear strength
- Excellent clarity

Processing Characteristics

- Excellent molding qualities
- Excellent pot life after mixing parts A & B
- Consistent quality

Product Data

Property*	Test Procedure	Value	
Appearance	WSTM 2298	Translucent	
Specific Gravity, 25°C	WSTM 1261	1.13	
Extrusion Rate Catalyzed, 25°C g/min **	WSTM 2299	60	
Pot Life, hrs, 25°C ***	WSTM 2299	48	
		Press Cured 5 min/166°C	Post Cured 4 hr/204°C
Hardness, Shore A	WSTM 1110	59	60
Tensile Strength	WSTM 1160		
MPa		10.0	10.1
psi		1450	1470
Elongation, %	WSTM 1160	450	400
Tear Strength, die B	WSTM 1160		
kN/m		35	33
ppi		200	189
Compression Set, Method B (22hr/177°C)	WSTM 1114	60	15
Shrink, %	WSTM 2316	2.9	3.5
Brittle Point, °C	ASTM D746	NA	-73

* Properties obtained after mixing Part A and Part B in a ratio of 1:1. ** Extrusion rate obtained at 90 psi and 0.125 inch orifice. *** Pot life determined by time required for extrusion rate to be reduced to 50% of initial value.

Properties

Typical Property values are not intended for use in the preparation of specifications. Please contact Wacker Silicones Division for assistance and recommendations before writing specifications on this product.

Fabricating

ELASTOSIL® LR 3003/60 US can be processed using standard liquid rubber injection molding techniques.

Vulcanization

ELASTOSIL® LR 3003/60 US is vulcanized by mixing part A with part B in a ratio of 1:1 with the application of heat. Cure initiation is exhibited at 115°C.

Storage

ELASTOSIL® LR 3003/60 US has a shelf life of at least 6 months when stored below 32°C in the tightly closed original container.

Storage beyond the recommended shelf-life does not necessarily mean that the product is no longer usable. However, the properties required for the intended use must be checked for quality assurance reasons.

Once opened, containers should always be resealed to prevent catalyst poisoning by amines, sulfur compounds, and other substances.

Order Information

ELASTOSIL® LR 3003/60 US Liquid Silicone Rubber is available in 36 kg. (80 lb.) pail kits and 364 kg (800 lb.) drum kits. Orders may be placed directly to:

Wacker Silicones Division
3301 Sutton Road
Adrian, Michigan 49221-9397
Phone: 1 800 248-0061
in Michigan: (517) 264-8336

Wacker Silicones Division is a domestic manufacturer of basic silicone materials for industry. Products include silicone fluids and emulsions, antifoam and release agents, room temperature vulcanizing (RTV) sealants and adhesives, heat curable rubber (HCR), liquid silicone rubber (LSR), masonry water repellents, paint raw materials, paper release coatings, and textile finishes.

Because we cannot foresee the varied conditions under which this information and our materials may be used, we do not guarantee the applicability or accuracy of this information or the suitability of our materials in any specific situation. Samples are provided and users should make their own tests to determine the suitability of our materials for their specific purposes. These materials are provided without warranty, either expressed or implied, of fitness for a specific purpose and nothing herein shall be construed as a recommendation for uses, which infringe valid patents, or as extending a license under valid patents.

The management system has been certified according to ANSI/ISO/ASQ Q9001 And ANSI/ISO 14001



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For technical, quality, or product safety questions, please contact:

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