

ELASTOSIL® LR 3003/50 US A/B



Liquid Silicone Rubber (LSR)

ELASTOSIL® LR 3003/50 A/B US is part of a product family that complies with:
21CFR 177.2600, "Rubber articles intended for repeated use"
Recommendation XV. Silicones, BfR
USP 23 Class VI and ISO 10993 for short term implantation (<30 days)

Properties

- Excellent catalyzed pot life
- Good mechanical strength
- High transparency
- Fast cure

Technical data

Properties Cured

Properties obtained after mixing Part A and Part B in a ratio of 1 : 1; press cured 5 min/166 °C, post cure 4 hrs/200 °C.

Property	Condition	Value	Method
Appearance	-	Transparent	WSTM 2298
Hardness Shore A	-	51	-
Viscosity, dynamic Component A	-	700000 mPa-s	-
Viscosity, dynamic Component B	-	800000 mPa-s	-
Density	25 °C	1.13 g/cm ³	-
Specific gravity	-	1.14 g/cm ³	-
Tensile strength	-	1500 psi	-
Elongation at break	-	500 %	-
Tear strength	-	35 kN/m	-
Brittle Point	-	-73 °C	-
Pot Life ⁽¹⁾	25 °C	48 h	-

¹Pot Life determined by time required for extrusion rate to be reduced to 50% of initial value

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Application details

ELASTOSIL® LR 3003 A/B US Liquid Silicone Rubbers are paste-like, easily pigmentable, two-component liquid silicone rubbers with short curing times.

These grades are particularly suitable for the large scale, automated production of molded parts.

Processing

ELASTOSIL® LR 3003/50 US A/B can be fabricated using standard liquid rubber injection molding techniques. The product is delivered equal parts A/B and designed for a 1:1 (A;B) mix ratio. With proper Imetering equipment, it can be pumped directly through a statixc mixer into the injection molding machine.

Packaging and storage

Packaging

ELASTOSIL® LR 3003/50 US A/B is available in 36 kg. (80 lb.) pail kits and 364 kg. (800 lb.) drum kits.

Storage

ELASTOSIL® LR 3003/50 US A/B has a shelf life of at least 12 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

Safety notes

For detailed safety information, please refer to the Safety Data Sheet (SDS).

QR Code ELASTOSIL® LR 3003/50 US A/B



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

Wacker Chemie AG, Gisela-Stein-Strasse 1, 81671 Munich, Germany
productinformation@wacker.com, www.wacker.com

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.