

ELASTOSIL® LR 3038 A+B

Liquid Silicone Rubber

Characteristics

Liquid silicone rubbers of the ELASTOSIL® LR 3038 series are paste-like, non-yellowing and easily pigmentable two-component compounds with short curing times. Their vulcanizates are noted for their high transparency and excellent mechanical properties. This series is specially designed for the Baby Care application field !

Application

These grades are particularly suitable for the economical production of large series of injection molded articles. Postcured parts can be used for applications in the pharmaceutical and food industries and comply with the recommendations "XV. Silicone" of the BfR and FDA § 177.2600.

For further information, please refer to our brochure "The Grades and Properties of ELASTOSIL® LR Liquid Silicone Rubber".

Processing

The A and B components are delivered ready to use in 20 and 200 litre drums. With standard metering equipment, they can be pumped directly from the original containers into the injection molding machine and mixed by a static mixer. The mixing ratio is 1 : 1. At room temperature, mixtures of A and B components have a pot life of at least three days.

For detailed information, refer to our brochure "Processing ELASTOSIL® LR Liquid Silicone Rubber".

Storage

ELASTOSIL® LR 3038 should be stored between 0 °C and 30 °C in the tightly closed original container. The 'Best use before end' date of each batch appears on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety information

Detailed safety information is contained in each material data safety sheet, which can be obtained from our sales offices.

The data presented in this leaflet 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 leaflet 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 recommendations do 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 products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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

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Product data

| Property | Test method | Unit | ELASTOSIL® LR 3038 A+B | | |
|---|----------------------------------|----------------------|------------------------|-------------|-------------|
| Typical general characteristics | | | | | |
| Shore Hardness A | DIN 53 505 | no unit | 30 | 40 | 50 |
| Appearance | | no unit | transparent | transparent | transparent |
| Specific gravity | DIN EN ISO 1183-1 A | [g/cm ³] | 1.10 | 1.15 | 1.14 |
| Viscosity (shear rate 0.9 s ⁻¹) | DIN 53 019 | [mPa s] | 800000 | 1 450 000 | 1 050 000 |
| Tensile strength | DIN 53 504 S 1 | [N/mm ²] | 7,8 | 9.1 | 8.7 |
| Elongation at break | DIN 53 504 S 1 | [%] | 640 | 670 | 420 |
| Tear resistance | ASTM D 624 B | [N/mm] | 30 | 35.0 | 43.0 |
| Rebound resilience | DIN 53 512 | [%] | 48 | -- | --- |
| Compression set | DIN ISO 815-B (22 h / 175 °C) | [%] | 15 | -- | --- |

Cure conditions: 5 min / 165 °C in press; post curing for 4 h / 200 °C in ventilated air

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

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