

ELASTOSIL[®] LR 3093/65 A/B



Liquid Silicone Rubber (LSR)

Liquid silicone rubber ELASTOSIL[®] LR 3093/65 A/B is a paste-like two-component compound with short curing times. The vulcanizates are noted for good mechanical properties and for excellent heat resistance within a temperature range of -55 °C to +225 °C, and for a short time up to +300 °C. Outstanding ultra low compression set can be achieved after post curing 4h at 210°C.

Properties

ELASTOSIL[®] LR 3093/65 contains a black heat stabilizer and therefore provides very good heat resistance. Vulcanizates show extremely low compression set after post-curing.

Specific features

- Heat resistant
- Reduced volatile content
- Ultra-low compression set

Technical data

Properties Uncured

| Property | Condition | Value | Method |
|--|-----------|--------------|-----------------|
| Viscosity, dynamic (1 s ⁻¹) | - | 650000 mPa·s | DIN EN ISO 3219 |
| Viscosity, dynamic (10 s ⁻¹) | - | 260000 mPa·s | DIN EN ISO 3219 |

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

Properties Cured

Cure conditions: 5 min / 165 °C in press, post-cured 4 h / 200 °C

| Property | Condition | Value | Method |
|--------------------------------|---------------|------------------------|-------------------------------|
| Appearance | - | black | - |
| Hardness Shore A | - | 63 | DIN ISO 48-4 |
| Density | - | 1.12 g/cm ³ | DIN EN ISO 1183-1 A |
| Tensile strength | - | 8.5 N/mm ² | ISO 37 type 1 |
| Elongation at break | - | 330 % | ISO 37 type 1 |
| Tear strength | - | 24 N/mm | ASTM D 624 B |
| Compression Set ⁽¹⁾ | 22 h 175 °C | 7 % | DIN ISO 815-1 type B method A |
| Compression Set ⁽²⁾ | 22 h 175 °C | 7 % | DIN ISO 815-1 type B method A |
| Compression Set ⁽³⁾ | 72 h 200 °C | 22 % | DIN ISO 815-1 type B method A |
| Compression Set ⁽⁴⁾ | 72 h 220 °C | 38 % | DIN ISO 815-1 type B method A |

¹post-cured 6 h / 200 °C

²post-cured 4 h / 210 °C

³post-cured 4 h / 210 °C

⁴post-cured 4 h / 210 °C

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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.

Applications

- General Automotive Parts
- Molded Seals (Automotive)

Processing

The A and B components are delivered ready to use in 20 kg pail and 200 kg drum kits. With adequate 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 please refer to the latest edition of our brochure "SOLID AND LIQUID SILICONE RUBBER - MATERIAL AND PROCESSING GUIDELINES".

Packaging and storage

Packaging

This product is available in 20 kg pail and 200 kg drum kits.

Storage

Once opened, containers should always be resealed after use to prevent the platinum catalyst from being poisoned by amines, sulphur or phosphorus compounds. The 'Best use before end' date of each batch is shown 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 notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code ELASTOSIL® LR 3093/65 A/B



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

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