ELASTOSIL® LR 3065/30 A/B

ELASTOSIL®

Liquid Silicone Rubber (LSR)

Liquid silicone rubber of the ELASTOSIL® LR 3065 series are a paste-like, easily-pigmentable two-component compounds with short curing times and low coefficient of friction. In comparison with ELASTOSIL® LR 3003 grades the coefficient of friction is reduced by 50 - 70 %. The vulcanizates are noted for their excellent mechanical and electrical properties. Due to the excellent compression set, there is no need to post-cure technical parts.

Properties

This product can be used within a temperature range of - 55 °C to + 210 °C. The addition of heat stabilizers at service temperatures of more than 180 °C is recommended. Further information to improve the heat stability by use of specific ELASTOSIL® Color Pastes FL can be obtained from the Technical Information Sheet "ELASTOSIL® Color Pastes FL".

Special features

- Low coefficient of friction
- Low compression set without post-cure
- Reduced volatile content

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic (1 s^{-1})	-	900000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic (10 s^{-1})	-	380000 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

Property	Condition	Value	Method
Compression Set	22 h | 175 °C	17 %	DIN ISO 815-1 type B method A
Elongation at break	-	700 %	ISO 37 type 1
Tensile strength	-	8.0 N/mm^2	ISO 37 type 1
Density	-	1.12 g/cm^3	DIN EN ISO 1183-1 A
Hardness Shore A	-	30	DIN ISO 7619-1
Appearance	-	transparent	-
Rebound resilience	-	50 %	ISO 4662
Tear strength	-	24 N/mm	ASTM D 624 B

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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

- Hybrid & Electric Drives
- Alternative Drives
- Automotive & Transport
- Gaskets & Membranes
- Parts
- Molded Seals (LSR)

Application details

Parts made from ELASTOSIL® LR 3065 are particularly suitable for the economical production of large series of injection moulded articles. They can generally be used for technical applications without post-curing, but do not comply with regulations in the pharmaceutical and food industry.

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 refer to 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 3065/30 A/B

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

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