ELASTOSIL® LR 3675/50 A/B

ELASTOSIL®

Liquid Silicone Rubber (LSR)

Self-adhesive silicone rubbers of the ELASTOSIL® LR 3675 series are paste-like, easily pigmentable two-component compounds with short curing times and low coefficient of fricition. In comparison with ELASTOSIL® LR 3070 grades the coefficient of friction is reduced by 50 - 70 %.
The vulcanizates are noted for their excellent mechanical and electrical properties. Due to the low compression set, there is no need to post-cure finished parts.

Properties

ELASTOSIL® LR 3675 series are primerless, self-bonding grades that adhere to various plastic substrates (e. g. PA, PBT) and metals. The bonding is improved by a subsequent heat treatment process (e. g. one hour at 100 °C) or by a longer storing at room temperature. The cured rubbers show a lower coefficient of friction without exuding oil as happens in oilbleeding silicone elastomers.

Specific features

- Low coefficient of friction
- Reduced volatile content
- Self-adhesive

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic (1 s^{-1})	-	1600000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic (10 s^{-1})	-	480000 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
Appearance	-	transparent	-
Tear strength	-	33 N/mm	ASTM D 624 B
Hardness Shore A	-	50	DIN ISO 48-4
Density	-	1.12 g/cm^3	DIN EN ISO 1183-1 A
Tensile strength	-	7.8 N/mm^2	ISO 37 type 1
Elongation at break	-	410 %	ISO 37 type 1
Compression Set	22 h | 125 °C	12 %	DIN ISO 815-1 type B method A
Compression Set	22 h | 150 °C	23 %	DIN ISO 815-1 type B method A

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Applications

- Battery
- Connector Seals
- General Automotive Parts
- Molded Parts
- Molded Seals (LSR)

Application details

Selfbonding ELASTOSIL® LR 3675 grades adhere to various plastic substrates (e. g. PA, PBT) and metals, but not to the mold. Because of the individual surface properties adhesion to the substrate must be tested before production. ELASTOSIL® LR 3675 can generally be used for technical applications without post-curing, e.g. connector seals in the automotive industry.

Processing

The A and B components are delivered ready to use in 20 and 200 litre drums. 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.

Start-up of new molds should be supported by use of ELASTOSIL® AUX Mold Release Agent 32.

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 3675/50 A/B

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

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