

ELASTOSIL® LR 3070/50 A/B

SELF-ADHESIVE LIQUID SILICONE RUBBER

Product description

Self-adhesive liquid silicone rubbers of the ELASTOSIL® LR 3070 series are paste-like, easily-pigmentable two-component compounds with extremely short curing times.

Special features

ELASTOSIL® LR 3070 series are primerless, selfbonding grades that adhere to various plastic substrates (e. g. PA, PBT) and metals, but not in the mold. 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. Because of the individual surface properties each substrate must be tested before mass production. The vulcanizates are noted for good mechanical and electrical properties. For further information on tested material combinations please refer to the corresponding adhesion tables which are available upon request from the responsible sales manager.

Application

ELASTOSIL® LR 3070 series are particularly suitable for the economical production of large series of overmolded parts (thermoplastic/elastomer), even in a comolding process (shuttle mold) under standard conditions, without any special treatment of the mold surface.

Parts made from ELASTOSIL® LR 3070 can generally be used for technical applications without post-curing, but do not comply with regulations concerning use in the pharmaceutical and food 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.

Note:

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

For detailed information refer to our brochure "SOLID AND LIQUID SILICONE RUBBER - MATERIAL AND PROCESSING GUIDELINES".

Storage

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>.

Product data

Typical general characteristics	Inspection Method	Value
Product data (non-postcured)		
Hardness Shore A	DIN 53505	52
Appearance		transparent
Density	ISO 1183-1 A	1,10 g/cm ³
Viscosity (shear rate 0.9 s ⁻¹)	DIN 53019	940000 mPa s
Viscosity (shear rate 10 s ⁻¹)	DIN 53019	270000 mPa s
Tensile strength	DIN 53504 S 1	8,0 N/mm ²
Elongation at break	DIN 53504 S 1	450 %
Tear strength	ASTM D 624 B	20 N/mm
Rebound resilience	DIN 53512	58 %
Compression set	DIN ISO 815-B (22 h / 125 °C)	18 %
Compression set	DIN ISO 815-B (22 h / 150 °C)	35 %

Cure conditions: 5 min / 165 °C in press

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

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.

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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