ELASTOSIL® LR 3094/60 A/B

LIQUID SILICONE RUBBER

Product description

Liquid silicone rubber ELASTOSIL® LR 3094/60 A/B is a paste-like two-component compound with extremely short curing times.

The vulcanizates are noted for good mechanical as well as electrical properties and for excellent heat resistance within a temperature range of -55 °C to +210 °C. Due to the outstanding compression set there is no need to postcure technical parts

Application

ELASTOSIL® LR 3094/60 A/B is particularly suitable for the economical production of large series of articles for the automotive industry, e. g. spark plug boots, distributor caps and various kinds of boots.
Parts made from ELASTOSIL® LR 3094/60 A/B 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. The vulcanization time (t90 value) is 20 to 50 % shorter than that of ELASTOSIL® LR 3003/60.

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
Hardness Shore A	DIN 53505	60
Appearance		black
Density	ISO 1183-1 A	1,14 g/cm³
Viscosity (shear rate 0.9 s^{-1})	ISO 3219	1200000 mPa s
Tensile strength	DIN 53504 S 1	10,00 N/mm^2
Elongation at break	DIN 53504 S 1	400 %
Tear strength	ASTM D 624 B	30 N/mm
Tear strength	DIN ISO 34-1 method A	10 N/mm
Tear strength	DIN ISO 34-1 method B	24 N/mm
Compression set	DIN ISO 815-B (22 h / 175 °C)	12 %
Electrical Properties		
Dielectric strength (1-mm-sheet)	IEC 60243-1	26 kV/mm
Volume resistivity	DIN IEC 93	2 x 10^{15} Ω cm
Dielectric constant (50 Hz)	DIN VDE 0303	2,7 εr
Dissipation factor (50 Hz)	DIN VDE 0303	15 x 10^{-4} tan δ

Cure conditions: 10 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:

Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München, Germany
info.silicones@wacker.com

www.wacker.com