ELASTOSIL® LR 3016/65 A/B

LIQUID SILICONE RUBBER

Product description

ELASTOSIL® LR 3016/65 A/B liquid silicone rubber is a pastelike, readily pigmentable two-component compound with extremely short curing time. Its vulcanizates are noted for their high oil resistance. They are colored off white and have improved mechanical properties. Thanks to the excellent compression set, there is no need to post-cure technical parts.

Application

ELASTOSIL® LR 3016/65 A/B is particularly suitable for the economical production of large series of injection molded articles. Parts made from ELASTOSIL® LR 3016/65 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. Due to their high oil resistance, ELASTOSIL® LR 3016/65 A/B is mainly used to produce gaskets and valves.

Processing

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

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	67
Appearance and color		white-off
Density	ISO 1183-1 A	1,17 g/cm³
Viscosity (shear rate 1 s^{-1})	DIN 53019	1600000 mPas
Tensile strength	DIN 53504 S 1	8,0 N/mm^2
Elongation at break	DIN 53504 S 1	310 %
Tear strength	ASTM D 624 B	26 N/mm
Compression set	DIN ISO 815-B (22 h / 175 °C)	13 %

Oil immersion (70 h / 150 °C)		
Property		
IRM 901		
Hardness Shore A		65
Tensile strength		7,9 N/mm^2
Elongation at break		290 %
Volume swell		5 %
IRM 902		
Hardness Shore A		64
Tensile strength		7,6 N/mm^2
Elongation at break		280 %
Volume swell		11 %
IRM 903		
Hardness Shore A		56
Tensile strength		5,2 N/mm^2
Elongation at break		200 %
Volume swell		36 %
Lubrizol OS 206 304		
Hardness Shore A		59
Tensile strength		6,6 N/mm^2
Elongation at break		240 %
Volume swell		17 %

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

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