

# ELASTOSIL® LR 3841/50 A/B

LOW OIL-BLEEDING LIQUID SILICONE RUBBER WITH ENHANCED MECHANICAL PROPERTIES

## Product description

Low oil-bleeding liquid silicone rubbers of the ELASTOSIL® LR 3841 series are paste-like, readily pigmentable two-component products with short curing times. Shortly after the curing process, a slight thin oil film with lubricating properties forms on the surface of the vulcanizates. The vulcanizates are opaque, have good mechanical and electrical properties and very low compression sets.

## Properties

The products 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® FL Color Pastes can be obtained from the Technical Information Sheet "ELASTOSIL® FL Color Pastes".

## Application

ELASTOSIL® LR 3841/50 A/B is particularly suitable for the economical production of weather packs in the automotive industry. They are increasingly being used to produce cable and connector seals. As an oil film forms, seals can be fitted easily and fully-automatically, even when tolerances are narrow.

## 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. Oil-exuding parts are not post-cured in general. Due to the very low compression set, these grades are ideal for weather packs.

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.

Once opened, containers should always be resealed after use to prevent the platinum catalyst from being poisoned by amines, sulphur or phosphorus compounds.

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
<b>Product data (non-postcured)</b>		
Hardness Shore A	DIN 53505	50
Appearance		opaque
Fluid content		approx. 1,5 %
Density	ISO 1183-1 A	1,13 g/cm <sup>3</sup>
Viscosity (0,9 s <sup>-1</sup> )	DIN 53019	1700000 mPa s
Tensile strength	DIN 53504 S 1	9,50 N/mm <sup>2</sup>
Elongation at break	DIN 53504 S 1	490 %
Tear strength	ASTM D 624 B	30 N/mm
Compression set	DIN ISO 815-B (22 h / 175 °C)	13 %
Compression set , post cured 1 h / 200 °C	DIN ISO 815-B (22 h / 175 °C)	8 %

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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