

ELASTOSIL[®] LR 3025/40 A/B



Liquid Silicone Rubber (LSR)

ELASTOSIL[®] LR 3025/40 A/B liquid silicone rubber is a paste-like, readily pigmentable two-component compound with short curing time. Its vulcanizates are noted for their high resistance to fuel cell environment. Thanks to the excellent compression set, there is no need to post-cure technical parts.

Properties

ELASTOSIL[®] LR 3025/40 offers excellent performance in fuel cell applications, especially outstanding low compression set even in contact with coolants.

Specific features

- Fast curing
- Low compression set without post-cure

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic (1 s ⁻¹)	-	380000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic (10 s ⁻¹)	-	150000 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	-
Hardness Shore A	-	40	DIN ISO 48-4
Density	-	1.11 g/cm ³	DIN EN ISO 1183-1 A
Tensile strength	-	7.0 N/mm ²	ISO 37 type 1
Elongation at break	-	500 %	ISO 37 type 1
Tear strength	-	31 N/mm	ASTM D 624 B
Compression Set	22 h 175 °C	11 %	DIN ISO 815-1 type B method A
Compression Set	22 h 120 °C	5 %	DIN ISO 815-1 type B method A

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Fuel Cells
- Molded Parts

Application details

ELASTOSIL® LR 3025/40 A/B is particularly suitable for the economical production of large series of injection molded articles. Parts made from ELASTOSIL® LR 3025/40 A/B can generally be used for technical applications without postcuring, but do not comply with regulations concerning use in the pharmaceutical and food industry. Due to their optimized stability against fuel cell gases and high resistance to effects related to noble metal migration, ELASTOSIL® LR 3025/40 A/B is mainly used to manufacture gaskets for fuel cells.

Processing

The A and B components are delivered ready to use in 20 kg pail and 200 kg drum kits. 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.

For detailed information refer to 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 3025/40 A/B



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

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