ELASTOSIL® LR 5040/60 A/B

ELASTOSIL®

Liquid Silicone Rubber (LSR)

ELASTOSIL® LR 5040/60 A/B is a paste-like, easily pigmentable two-component liquid silicone rubber with very low volatiles content and excellent mechanical properties with no required post-cure. Articles made from ELASTOSIL® LR 5040/60 A/B exhibit high transparency, excellent electrical properties, and mechanical properties engineered for high tear resistance according to DIN ISO 34-1 A (trousers) and ASTM D 624 B (crescent) without post-curing. The ability to meet regulatory requirements for specific food and baby care applications without need for post-curing offers key advantages in cost-savings and productivity.

Properties

Narrow Shore hardness range from 57 to 63 Shore A (60 ± 3 Shore A) without post-curing.

Special features

- Food-contact
- High tear-resistant
- Low volatile
- Non post-cured

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic (1 s^{-1})	-	1300000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic (10 s^{-1})	-	500000 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
Elongation at break	-	380 %	ISO 37 type 1
Tensile strength	-	9.0 N/mm^2	ISO 37 type 1
Density	-	1.13 g/cm^3	DIN EN ISO 1183-1 A
Volatile content	-	≤ 0.4 %	BfR Recommendation XV. Silicones
Hardness Shore A	-	60	DIN ISO 7619-1
Appearance	-	slightly bluish	-
Tear strength	-	50 N/mm	ASTM D 624 B
Tear strength	-	11 N/mm	DIN ISO 34-1 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

- Food Technology
- Baby Care
- Sanitary
- Medical Parts
- Food Processing
- Dairy Applications

Application details

ELASTOSIL® LR 5040/60 A/B is designed for the automated, high volume production of injection moulded articles.

Properly cured vulcanizates of ELASTOSIL® LR 5040/60 A/B can be used for food contact applications and are suitable for use under the Recommendation "XV. Silicones" of the BfR and FDA 21 CFR §177.2600 "Rubber Articles Intended for Repeated Use" considering any given limitations on extractable and volatile substances.

Properly cured materials meet the limit of 0.5 % for volatile substances in accordance with BfR “XV. Silicones”, DIN EN 1400:2014-07 and DIN EN 14350-2:2004-11, respectively. Consequently, post-curing may not be necessary, however, as the results may vary with the processing conditions and the geometry of the finished article, it is the responsibility of the person placing the article on the market to verify compliance with all relevant requirements and regulations.

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 one day.
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

Please store the containers in a dry and cool place. 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 5040/60 A/B

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

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