# ELASTOSIL® LR 6171 A/B

ELASTOSIL®

Liquid Silicone Rubber (LSR)

ELASTOSIL® LR 6171 A/B grades are self-adhesive, paste-like, easily pigmentable two-component liquid silicone rubbers with extremely short curing times.

## Properties

Narrow Shore hardness range from 28 to 34 Shore A (31 ± 3 Shore A).
This product 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® Color Pastes FL can be obtained from the Technical Information Sheet "ELASTOSIL® Color Pastes FL".

### Special Features

- Good to Excellent Adhesion to fabric
- Excellent mechanical properties
- Rapid Heat Cure

## Technical data

### Properties Uncured

| Property | Condition | A | B | Method |
|---|---|---|---|---|
| Viscosity, dynamic[1)] | - | 200000 mPa·s | 455000 mPa·s | DIN/EN ISO 3219, CP15-2/0.89 s-1/25ºC |

[1] 2.5 rpm

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

## Properties Cured

Cure conditions: mixture of ELASTOSIL® LR 6171 A/B in ratio 1: 1, 10 min / 165°C

| Property | Condition | Value | Method |
|---|---|---|---|
| Appearance | - | translucent | Visual |
| Hardness Shore A | - | 32 | DIN ISO 48-4 |
| Density | - | 1.11 g/cm³ | DIN EN ISO 1183-1 A |
| Tensile strength | - | 6.5 N/mm² | ISO 37 type 1 |
| Elongation at break | - | 590% | ISO 37 type 1 |

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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

- Industrial Textiles
- Sports performance fabrics
- Sleeving
- Flame & Heat Protection
- General Automotive Parts
- Household Applications
- Molded Seals (Automotive)
- Textiles for Protective Clothing

# Application details

ELASTOSIL® LR 6171 A/B is a liquid silicone rubber with moderate viscosity to produce flexible textile coatings & with high recovery. It is especially suitable for the manufacture of textile coatings and electrical insulation application.

The components of ELASTOSIL® LR 6171 A/B are in compliance with the positive lists of the Recommendation XV. However, for compliance of the finished article with the before mentioned regulations the product has to be appropriately cured and given limitations on extractable and volatile substances have to be met.

## 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.

Recommended curing conditions: 3 min at 150°C or 1 min at 180°C

Adhesion of ELASTOSIL® LR 6171 A/B depends on substrate. Preliminary testing should be carried out to determine optimum formulation and cure conditions.

## Packaging and storage

### Packaging

This product is available in 20 kg pails 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.

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

Wacker Metroark Chemicals Pvt. Ltd.
D.H. Road, Chandi, 24 Parganas (S) West Bengal – 743503, India
Telefax +91 (33) 2407-2100 / Telephone +91 (33) 2407-2261

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