

# ELASTOSIL<sup>®</sup> LR 3078/40 US A/B



## Liquid Silicone Rubber (LSR)

Self-Adhesive Liquid Silicone Rubber

### Properties

Liquid silicone rubber of the ELASTOSIL<sup>®</sup> LR 3078/40 US A/B is a paste-like, easily-pigmentable two-component compound with extremely short curing times.

The individual surface properties each substrate must be tested before mass production. If necessary, check the development of adhesive properties over time and/or in an environment relevant to the application.

ELASTOSIL<sup>®</sup> LR 3078/40 US A/B is noted for its' ability to be molded into intricatelyshaped, precision parts. Very brief molding cycles for intricately-shaped and flash-free parts are possible.

### Specific features

- Self-adhesive

## Technical data

### Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic (1 s <sup>-1</sup> )	-	1200000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic (10 s <sup>-1</sup> )	-	350000 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	-	1.13 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Tensile strength	-	8.5 N/mm <sup>2</sup>	ISO 37 type 1
Elongation at break	-	590 %	ISO 37 type 1
Tear strength	-	24 N/mm	ASTM 624 B
Compression Set	22 h   125 °C	11 %	DIN ISO 815-1 type B method A
Compression Set	22 h   150 °C	24 %	DIN ISO 815-1 type B method A
Compression Set	22 h   175 °C	37 %	DIN ISO 815-1 type B method A
Modulus at 100 % elongation	-	0.6 N/mm <sup>2</sup>	ISO 37 type 1
Rebound resilience	-	52 %	ISO 4662

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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.

## Application details

ELASTOSIL® LR 3078/40 US A/B is a primerless, selfbonding liquid silicone rubber (LSR) grade designed for adhesion to polycarbonate substrates and other thermoplastics in the 2K injection molding process.

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 3078/40 US A/B



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

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