

# ELASTOSIL® RT 623 US A/B



## Room Temperature Curing Silicone Rubber (RTV-2)

ELASTOSIL® RT 623 US A/B is a pourable, additioncuring, two-component silicone rubber that vulcanizes at room temperature.

### Properties

- Excellent flow
- High reactivity for fast demolding even if large amounts of silicone fluid are added
- Fast and non-shrink cure at room temperature which can be accelerated considerably by the application of heat
- Medium hardness (Shore A approx. 31)
- High tear strength
- Long-term stability of the vulcanizate's mechanical properties, particularly its hardness

### Technical data

#### Properties Uncured

Property	Condition	A	B	Method
Color	-	white	reddish brown	-
Density	23 °C	1.14 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>	DIN 52 479 A
Viscosity, dynamic	23 °C	25000 mPa·s	800 mPa·s	Brookfield

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

### Catalyzed

Property	Condition	Value	Method
Viscosity, dynamic	-	15000 mPa·s	ISO 3219
Mix ratio	-	9 : 1	A : B
Pot life	-	30 min	-

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### Properties Cured

Property	Condition	Value	Method
Color	-	reddish brown	-
Density in water	23 °C	1.12 g/cm <sup>3</sup>	ISO 2781
Tear strength	-	170 ppi	ASTM 624 B
Hardness Shore A	-	31	ISO 868
Tensile strength	-	1000 psi	ISO 37
Elongation at break	-	700 %	ISO 37
Linear shrinkage	23 °C	< 0.1 %	-

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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

- Automotive Molding
- Cosmetic Molding
- Creative Moldmaking
- Reproduction Molding
- Reproduction Molding for foundry, arts and handicraft

## Application details

ELASTOSIL® RT 623 US A/B has been specially designed as a base material for making printing pads.

Modification of pad hardness by adding silicone fluid produces a dilution effect that causes prolonged pot life and tack-free time and might in extreme cases even result in inhibition of curing.

The markedly greater reactivity of ELASTOSIL® RT 623 A/B will considerably compensate for this dilution effect, thus making for increased production rates and higher quality.

Moreover, the vulcanizate's high mechanical strength and increased adhesion tendency in conjunction with special quality assurance measures (such as release checks on curing characteristics and mechanical properties of the system modified with silicone fluid; tests for absence of pigment particles larger than 100 µm) make ELASTOSIL® RT 623 A/B an ideal base material for producing printing pads with excellent mechanical properties and long service life, which can also easily be recappeded.

## Packaging and storage

### Packaging

ELASTOSIL® RT 623 US RTV-2 Silicone Rubber Component A is available in 18 kg. and 162 kg. containers and Component B is available in 2 kg. and 18 kg. (6.6 lb.) containers.

### Storage

ELASTOSIL® RT 623 US has a shelf life of at least 12 months when stored between 5 °C and 30 °C in the originally sealed container. The 'Best use before end' date of each batch appears 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.

## QR Code ELASTOSIL® RT 623 US A/B



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

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