ELASTOSIL® RT 646 A/B

RTV-2 SILICONE RUBBER

Product description

ELASTOSIL® RT 646 A/B is a castable, addition-curing, two-component silicone rubber which vulcanizes at room temperature.

Special features

- high hardness and good mechanical properties
- good chemical resistance
- good resistance to casting resins
- excellent reversion resistance
- fast and non-shrink vulcanization at room temperature
- vulcanization can be accelerated considerably by heat

Application

- encapsulation of electronic components
- all-round potting compound
- mould making

Processing

Important note:
The platinum catalyst is in component A.

Caution:
Only components A and B with the same lot number may be processed together!

To ensure homogeneity of the material, the components must be stirred thoroughly before they are removed or processed in their containers, in order to uniformly disperse any filler that might have settled during storage.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions are given in our leaflet "Wacker RTV-2 Silicone Rubber - Processing".

Temperature	Curing time, thickness 1 cm
23 °C	24 h
50 °C	60 min
100 °C	10 min
150 °C	5 min

Storage

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.

Product data

Typical general characteristics	Inspection Method	Value
Product data (uncured)		
Component A		
Color		beige
Viscosity at 23 °C	ISO 3219	110000 mPa s
Density		1,3 g/cm³
Component B		
Color		transparent
Viscosity at 23 °C	ISO 3219	2000 mPa s
Density		1,01 g/cm³
Product data (catalyzed A + B)		
Mix ratio (pbw)	A : B	10 : 1
Viscosity of mix	ISO 3219	70000 mPa s
Pot life at 23 °C, up to 100000 mPa s		80 min
Platinum-catalyst in component		A
Linear shrinkage (curing at room temperature)		≤ 0,1 %
Product data (cured)		
Color		beige
Density at 23 °C	DIN EN ISO 1183-1 / ISO 2781	1,28 g/cm³
Hardness Shore A	DIN 53 505 / ISO 868	53
Tensile strength	DIN 53504 S1 / ISO 37	5,00 N/mm²
Elongation at break	DIN 53504 S1 / ISO 37	280 %
Tear strength	ASTM D 624 B	12 N/mm

Cured for 60 min at 150 °C in a circulating air oven.
These figures are only intended as a guide and should not be used in preparing specifications.

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

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