

ELASTOSIL® RT K

RTV-2 Silicone Encapsulant

Characteristics

ELASTOSIL® RT K is a pourable, condensation-curing, two-component silicone rubber that vulcanizes at room temperature.

Special characteristics

- Excellent flowability
- Good self-deaeration
- Medium Shore A hardness
- Good dielectric properties

Product data (uncured)

Property	Test method	Unit	Value
Color			Light gray
Viscosity at 23 °C, stirred	ISO 3219	[mPa s]	12,000
Density at 23 °C		[g/cm ³]	1.23

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

Product data (catalyzed)

Property	Test method	Unit	Value
Viscosity of mix (2 wt % Catalyst T)	ISO 3219	[mPa s]	10,000
Pot life, 23 °C, to reach 60,000 mPa s	2 % T 4 % T	[min]	90 30
Curing time (thickness 1 cm)	2 % T 4 % T	[h]	7 3
Linear shrinkage (cured for 7 d / 23 °C)	2 % T 4 % T	[%]	0.3 0.7

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Product data (cured)

Property	Test method	Unit	Value
Color			Light gray
Density at 23 °C	ISO 2781	[g/cm ³]	1.22
Hardness Shore A	ISO 868		45
Tensile strength	ISO 37	[N/mm ²]	2.0
Elongation at break	ISO 37	[%]	130
Dielectric strength	IEC 243	[kV/mm]	23
Volume resistivity	IEC 93	[Ω cm]	10 ¹⁴
Dielectric constant	VDE 0303 T4 / 50 Hz	[ε _r]	3.3
Dissipation factor	VDE 0303 T4 / 50 Hz	[tan δ]	290 x 10 ⁻⁴
Tracking resistance	IEC 112	[CTI]	> 600

With 2 wt % Catalyst T; after 4 d at 23 °C / 50 % rel. humidity.

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Application

- Encapsulation of electrical and electronic components

Processing

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".

Storage

ELASTOSIL® RT K 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.

Safety information

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from Wacker subsidiaries.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001. The Business Unit Elastomers of the Division Silicones is ISO/TS 16949 certified.

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