

ELASTOSIL® RT 740

RTV-2 Silicone Rubber / Encapsulant

Characteristics

ELASTOSIL® RT 740 is a low viscos, addition-curing RTV-2 silicone rubber that vulcanizes at room temperature or at elevated temperature to a rubber with medium hardness

Application

- Encapsulation of electronic components

Special characteristics

- Two-part, 10 : 1 mixing ratio
- Low viscosity
- Reduced risk of curing inhibition
- Medium hardness
- Self adhesive
- Rapid cure at room temperature with hardener ELASTOSIL® CAT PT or ELASTOSIL® CAT PT-F

Product data (uncured)

Property	Test method	Unit	Value
Component, Base			
Color			Beige
Viscosity at 25 °C	ISO 3219	[mPa s]	1500
Density at 23 °C		[g/cm³]	1.48

Product data (catalyzed A+B)

Property	Test method	Unit	Value
Suitable Hardener (Catalyst)		ELASTOSIL® CAT PT ELASTOSIL® CAT PT-F	
Mixing ratio Base : Hardener		By weight	10 : 1
Viscosity of mix at 23 °C	ISO 3219	[mPa s]	1200
Pot life at 23 °C, up to 100,000 mPas			
ELASTOSIL® CAT PT		[min]	20
ELASTOSIL® CAT PT-F			5
Gelling time, 10 g , 23°C			
ELASTOSIL® CAT PT		[min]	25
ELASTOSIL® CAT PT-F			10

Product data (cured)

Property	Test method	Unit	Value
Color			Beige
Density at 23 °C, in water	ISO 2781	[g/cm³]	1.40
Hardness Shore A	ISO 868		50
Tensile Strength		[MPa]	4.0
Elongation		[%]	130
Thermal Conductivity		[W/mK]	0.5

Cured for 30 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.

Processing

Caution

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

Mixing

Component ELASTOSIL® RT 740 contains the crosslinker, component ELASTOSIL® CAT PT contains the catalyst. Even traces of the platinum catalyst may cause gelling of the component containing the crosslinker. Therefore tools (spatula, stirrers, etc.) used for handling the platinum-containing component or the catalyzed compound must not come into contact with this component.

The two components should be thoroughly mixed at a 10 : 1 ratio by weight .

To eliminate any air introduced during mixing or trapped under components or devices a vacuum de-airing under a vacuum of 10 - 20 mm mercury for 5 - 10 min is recommended.

Curing

ELASTOSIL® RT 740 works best when cured at 70 °C or more depending on the size and heat sink properties of the components.

Temperature	Curing time, thickness 6 mm
25 °C	60 min
150 °C	5 min

Storage

ELASTOSIL® RT 740 can be stored for 6 months. It should be stored between 5 °C and 30 °C in the tightly closed original 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

According to the latest findings addition-curing silicone rubber ELASTOSIL® RT 740 contains neither toxic nor aggressive substances which would require special handling precautions. General industrial hygiene regulations should be observed.

Detailed safety information is contained in each Material Safety Data Sheet, which can be obtained from our sales offices.

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



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

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