

ELASTOSIL® SC 860

RTV-2 Silicone Foam

Characteristics

ELASTOSIL® SC 860 is a flowable, addition-curing, two-component silicone rubber, which forms during cure a mainly closed cell foam.

Special characteristics

- Two-component system
- Flowable
- Fast foaming and cure
- Medium foam density
- No ozone damaging blowing agents
- High compressibility
- Low compression set
- Primerless adhesion to many substrates
- Good chemical resistance

Application

- General purpose foam for gaskets (dispensed foam gaskets)
- Suitable for sound and heat insulation
- Shock and vibration damping at high temperature changes

Processing

ELASTOSIL® SC 860 shows good primerless adhesion to many substrates (metals, glass, ceramics, PA, PBTP). If self-adhesion is not sufficient, surface treatment or a primer may be applied.

Product data (uncured)

Property	Test method	Unit	Value	
Component			A	B
Color			Creamwhite	Black
Density at 23 °C	ISO 2811	[g/cm³]	1.19	1.04
Viscosity at 23 °C	ISO 3219	[mPa s]	20,000	25,000

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

Product data (catalyzed A+B)

Property	Test method	Unit	Value
Mixing ratio (p.p.w.)		A : B	1 : 1
Mixing ratio (p.p.v.)			1 : 1.15
Pot life (23 °C, time to 100 Pa s)		[s]	120
Tack-free time		[min]	10

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

Product data (cured)¹⁾

Property	Test method	Unit	Value
Color			Gray
Density at 23 °C	ISO 2781	[g/cm³]	350
Hardness (with skin) Shore A Shore 00	ISO 868		8 - 10 25 - 35
Elongation at break	ISO 37	[%]	80
Tensile strength	ISO 37	[N/mm²]	0.5

¹⁾ 24 h storage at 23 °C / 50 % RH.

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

For processing we recommend to use automatic mixing and dispensing equipment with dynamic mixer, our technical service will give advice for proper selection. The quality of the foam is highly influenced by processing parameters (e. g. addition of air, type of mixer) and environmental parameters. As ELASTOSIL® SC 860 is an addition-curing system certain substances can inhibit the foaming and curing process. Our technical service will be glad to help to solve such problems.

We recommend to run preliminary tests to optimize conditions for the particular application.

Attention!

During foaming and curing hydrogen gas is evolved. Please ensure proper ventilation, if larger amounts of material are processed. Release of hydrogen is almost completed after 24 hours.

The platinum catalyst is contained in component A.

Caution!

Only components A and B that have the **same lot number** may be processed together!

Storage

ELASTOSIL® SC 860 has a shelf life of at least 6 months when 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, the components A + B of ELASTOSIL® SC 860, being an addition-curing RTV-2 silicone rubber, contains neither toxic or corrosive substances which would require special handling precautions. General hygiene regulations should be observed.

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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