

ELASTOSIL® SC 873 A/B

Preliminary datasheet

Silicone Foam

Product description

ELASTOSIL® SC 873 A/B is a thixotropic, flame retardant, addition-curing, two-part silicone rubber, forming a mainly closed cell foam.

Special features

- two-component system
- thixotropic
- flame retardant (UL 94 V0)
- 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)
- especially suitable for 3-dimensional gasket bead

Processing

ELASTOSIL® SC 873 A/B shows primerless adhesion to many substrates (metals, glass, ceramics, PA, PBTP). If self-adhesion is not sufficient, surface treatment or a primer may be applied.

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 873 A/B 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

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

According to the latest findings, the addition-curing silicone rubber ELASTOSIL® SC 873 A/B contains neither toxic or corrosive substances which would require special handling precautions.

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 (uncured)

Characteristics	Inspection method	Unit	Value	
Component			A	B
Color			White	Black
Density	ISO 2781	[g/cm ³]	1.15	1.16
Viscosity at 23°C	ISO 3291 D=10 1/s	[mPa·s]	130,000	83,000

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

Product data (catalyzed A+B)

Characteristics	Inspection method	Unit	Value	
Mix ratio (pbw)		A:B	1:1	
Pot life at 23°C	To 200 Pa·s	[s]	150	

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

Product data (cured)

Characteristics	Inspection method	Unit	Value	
Color			Black	
Density at 23°C	ISO 2781	[g/cm ³]	0.4 - 0.5	
Hardness Shore 00	ISO 868		55 - 75	
Tensile strength	ISO 1798	[MPa]	0.8	
Elongation at break	ISO 1798	[%]	180	

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