ELASTOSIL® A59 GREY 01

ELASTOSIL®

Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL® A59 GREY 01 is a self-levelling one-component, amine-cure formulation which cures at room temperature by reaction with air humidity to a flexible and durable silicone elastomer. It is particularly suited for screen printing on gaskets

Properties

- amine-curing system
- extended skin-over time
- cure accleration by temperature, further strong activation by CO2
- no use of organotin catalysts
- Recommended service temperature from -45 °C to +200 °C

Specific features

- Product Rheology: Low viscosity
- Product Rheology: Self-levelling
- Resistance: Heat resistant
- Resistance: Oil resistant
- Specific Features: Broad adhesion profile
- Specific Features: Heat resistant
- Specific Features: Low viscosity
- Specific Features: Oil resistant
- Surface Effect: Oil resistant

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	gray	-
Density	23 °C	1.42 g/cm^3	DIN EN ISO 2811-1
Viscosity, dynamic	25 °C	40000 mPa·s	DIN EN ISO 3219
Skin formation time[1]	-	30 - 60 min	internal method

[1]at 23 °C, 50 % RH

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

Properties Cured

Property	Condition	Value	Method
Color	-	gray	-
Density	23 °C	1.44 g/cm^3	DIN EN ISO 1183-1 A
Hardness Shore A	-	20	DIN ISO 48-4
Tensile strength[1]	-	1.2 N/mm^2	ISO 37
Elongation at break	-	300 %	ISO 37

[1]Type 3 / 23°C / 2mm

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

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Application details

Low viscous grade suitable as general purpose sealant for coating and potting, furthermore perfectly suited for screen printing applications for gaskets e.g cylinder head gaskets
ELASTOSIL® A59 GREY 01 is a one-part room temperature curing coating therefore the curing rate depends on temperature and on atmospheric humidity. The curing rate can be accelerated by heat exposure or exposure to carbon dioxide concentration above 1% p.b.v.

Uncured or partially cured silicone can be removed by help of organic solvents such as alipatic or aromatic hydrocarboncleaning should take place before the rubber is fully cured. Once completely cured, only mechanical removal supported by prior solvent swell is possible. Swelling can be accelerated by elevated temperature.

Detailed processing instructions are given in our brochure “ROOM TEMPERATURE VULCANIZING (RTV) SILICONES - MATERIAL AND PROCESSING GUIDELINES

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

Packaging and storage

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

During vulcanization of ELASTOSIL® A59 GREY 01, a total of 3-4% by weight of an amine is being split off. These vapours should not be inhaled for long periods or in high concentration. Work areas should therefore be well ventilated. Contact of unvulcanized silicone rubber with eyes and mucous membranes must be avoided as this would cause irritation. However if it does happen, rinse the affected area thoroughly with water. 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.

QR Code ELASTOSIL® A59 GREY 01

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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
info@wacker.com, www.wacker.com

The data presented in this medium 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 medium 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 information provided by us does 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 product for a particular purpose.