

ELASTOSIL[®] A59 GRAY



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] A59 GRAY 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 acceleration by temperature, further strong activation by CO₂
- no use of organotin catalysts
- Recommended service temperature from -45 °C to +200 °C

Specific features

- Heat resistant
- Low viscosity
- Oil resistant
- Self-levelling

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	-	30 - 60 min	-

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

Properties Cured

Curing Conditions: 14 days at 23 °C and 50 % rel. humidity, 2 mm sheet, no post-curing

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	-	1.2 N/mm ²	ISO 37 type 1
Elongation at break	-	300 %	ISO 37 type 1

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Applications

- Appliances Industry
- Bonding & Sealing
- Formed-In-Place-Gaskets (Wet Type)
- Industrial Assembly
- Ready-to-Use Silicone Sealants - General Applications

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 GRAY 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 GRAY, 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 GRAY



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

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