

ELASTOSIL[®] N 2034



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] N 2034 is a self-levelling, Alkoxy-cure one-component silicone sealant, which cures at room temperature under the influence of moisture.

It shows excellent primerless adhesion to many substrates.

Properties

- flame retardant (meets UL 94 V-0)
- self-levelling
- Recommended service temperature from -45 °C to +180 °C

Specific features

- Flame retardant
- Low viscosity
- One-component

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	black	-
Density	23 °C	1.15 g/cm ³	DIN EN ISO 2811-1
Viscosity, dynamic D = 0.5 1/s	25 °C	30000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic D = 25 1/s	25 °C	12500 mPa·s	DIN EN ISO 3219
Skin forming time	23 °C 59 % r.h	20 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
Density	23 °C	1.16 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A	-	35	DIN ISO 48-4
Tensile strength ⁽¹⁾	-	2 N/mm ²	ISO 37 type 3
Elongation at break	-	200 %	ISO 37 type 3

¹Type 3 / 23°C / 2mm

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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.

Applications

- Appliances Industry
- Automotive Electronics
- Bonding & Sealing
- E-Mobility
- Formed-In-Place-Gaskets (Wet Type)
- Heating & Cooling
- Machine Building
- Measurement & Control, Sensor Technology
- Railway Industry

Application details

Multipurpose grade for sealing and bonding such as FIPG-applications for e.g. automotive headlamps

Processing

ELASTOSIL® N 2034 is a ready-to-use, acid- and solvent-free, non-corrosive RTV-1 (room temperature vulcanizing, one-component) silicone rubber suitable for many applications.

Excellent adhesion to plastics and metals in combination with a high elasticity and durability open up a wide range of potential uses for ELASTOSIL® N 2034. The consistency of the uncured material allows a high application rate and makes it a good choice not only for dispensing from a caulking gun but also for automatic dispensing.

The fully cured rubber can withstand expansion-compression cycles for many years and is therefore especially well suited for joining materials with different coefficients of thermal expansion. The vulcanized silicone rubber permanently remains elastic over a wide temperature range from -50 °C to +180 °C (-58 °F to +356 °F).

If removing of silicone rubber from machines or dispensing equipment is necessary, white spirit is recommended as a solvent. However, cleaning should take place before the rubber is fully cured. Afterwards only the use of mechanical forces in combination with a swelling solvent or the use of high temperatures of approximately 100°C will help to remove sealant residues.

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

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

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

ELASTOSIL® N 2034 releases during cure a total 3 % alcohol. These vapors should not be inhaled for long periods or in high concentrations. Hence good ventilation of the works place is necessary. 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® N 2034



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

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