

ELASTOSIL[®] E47 TRANSPARENT



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] E47 TRANSPARENT is a non-slump, one-component acetoxy-cure silicone rubber, which cures at room temperature under the influence of atmospheric moisture.

ELASTOSIL[®] E47 TRANSPARENT shows particular excellent adhesion to cured silicone elastomers.

Vulcanization can be accelerated by elevated temperatures (up to 80°C)

Properties

- meets the physical requirements of MIL-A-46106, Group I, Type I and Group II, Type I
- non-sag, soft paste
- high extrusion rate
- outstanding adhesion to cured silicone rubber

Specific features

- Good adhesion to metals, glass and ceramics
- High mechanical strength yet good elasticity
- High tear-resistant
- MIL-A 46106 grade
- Non-slump
- One-component
- Ready to use
- Technical grade
- Thixotropic
- Very good elastic recovery and high elasticity

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	transparent	-
Density in water	-	1.12 g/cm ³	DIN EN ISO 2811
Viscosity, dynamic D = 0.5 1/s	25 °C	600000 mPa·s	ISO 3219
Viscosity, dynamic D = 25 1/s	25 °C	80000 mPa·s	ISO 3219
Extrusion rate - mass flow ⁽¹⁾	-	10 g/10s	internal method
Skin forming time	23 °C 50 % r.h	10 min	-

¹3.1 mm nozzle, 0.21 N/mm² pressure

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

Properties Cured

2 mm, 7 d storage at 23 °C, 50 % RH

Property	Condition	Value	Method
Color	-	transparent	-
Density in water ⁽¹⁾	23 °C	1.07 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A	-	37	ISO 7619-1 / 23°C / d = 6 mm
Tensile strength ⁽²⁾	-	4.5 N/mm ²	ISO 37
Elongation at break ⁽³⁾	-	450 %	DIN 53504 S1 / ISO 37
Tear strength	-	10 N/mm	based on ASTM D 624 B / 23°C / t = 2 mm

¹23°C

²Type 3 / 23°C / 2mm

³Type 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

- Luminaires
- Small Appliances

- Small Appliances

Application details

ELASTOSIL® E47 TRANSPARENT is a multipurpose grade for sealing and bonding. It is in particular suited as adhesive for cured silicone such as profiles, prosthetics inliners etc.

Processing

ELASTOSIL® E47 TRANSPARENT shows good primerless adhesion to many substrates. We recommend running 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

During vulcanization of ELASTOSIL® E47 TRANSPARENT, a total of 3% by weight of acetic acid is 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® E47 TRANSPARENT



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

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