

ELASTOSIL[®] E50 TRANSPARENT



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] E50 TRANSPARENT is a flowable silicone rubber with good mechanical properties, which cures at room temperature under the influence of atmospheric moisture.

Properties

- acetic acid-curing system
- flowable
- solventless
- excellent primerless adhesion to many substrates
- meets the physical requirements of MIL- A-46106, Group I, Type II and Group III, Type II

Specific features

- MIL-A 46106 grade
- Self-levelling

Technical data

Properties Uncured

Property	Condition	Value	Method
Appearance	-	colorless	-
Density	20 °C	1.08 g/cm ³	DIN EN ISO 1183-1 A
Viscosity, dynamic (2.5 rpm)	23 °C	50000 mPa·s	Brookfield

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

Properties Cured

Curing conditions: 2 mm, 14 days storage at 23 °C and 50 % RH.

Property	Condition	Value	Method
Appearance	-	transparent	-
Density in water	23 °C	1.09 g/cm ³	DIN EN ISO 1183-1 / ISO 2781
Hardness Shore A	-	35	ISO 7619-1
Tensile strength	-	1.5 N/mm ²	ISO 37 type 1
Elongation at break	-	150 %	ISO 37 type 1
Tear strength	-	5.0 N/mm	ASTM D 624 B

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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
- Small Appliances
- Household Applications
- Small Appliances

Application details

General purpose sealant and adhesive

Processing

ELASTOSIL® E50 TRANSPARENT shows good primerless adhesion to many substrates. We recommend to run preliminary tests to optimize conditions for the particular application.

Skin forming time at 23°C / 50% rH: 10 - 15 min

Curing time at 23°C, 50% rH: 12 h/mm

Additional information

Tests according to the United States Military Standard (MIL-SPEC):

Wacker Chemie AG performs all test referring to MIL Spec according to its current test methods, lab conditions, quality methods, procedures, sampling, packaging, and so forth. These test methods, lab conditions, quality methods, procedures, sampling, packaging, and so forth need not necessarily be identical with the test methods, lab conditions, quality methods, procedures, sampling, packaging, and so forth listed in the above-mentioned specification.

Compliance with the above-mentioned MIL Spec is limited to certain properties (excluding heat resistance as mentioned in MIL-A-46106, Group III, Type II) and does not imply or state conformity to any other aspect of the referenced specification, including but not limited to sampling, marking, packaging, bar coding, testing, or sampling.

Packaging and storage

Packaging

This product is available in 21 kg pails and 210 kg drums.

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

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>.

During vulcanization of ELASTOSIL® E50 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.

QR Code ELASTOSIL® E50 TRANSPARENT



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

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