

# ELASTOSIL<sup>®</sup> N10 TRANSPARENT



## Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL<sup>®</sup> N10 TRANSPARENT is a solvent-free, neutral cure, low viscous and non-thixotropic silicone sealant which cures at room temperature under influence of atmospheric moisture. It exhibits excellent primerless adhesion to many substrates

### Properties

- low viscosity
- non-thixotropic

### Specific features

- Excellent adhesion
- Flexible at low (-40 °C) and high temperatures (+180 °C)
- Free flowing
- Non-corrosive to metals
- Solvent-free

## Technical data

### Properties Uncured

Property	Condition	Value	Method
Color	-	colorless	-
Viscosity, dynamic D = 1 1/s	23 °C	8000 mPa·s	ISO 3219
Viscosity, dynamic D = 25 1/s	23 °C	7500 mPa·s	ISO 3219
Skin formation time	-	25 min	-
Skin forming time	23 °C   50 % r.h	25 min	-

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
Density	-	1.03 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Hardness Shore A	-	25	ISO 7619-1 / 23°C / d = 6 mm
Tensile strength <sup>(1)</sup>	-	1.5 N/mm <sup>2</sup>	ISO 37
Elongation at break <sup>(2)</sup>	-	200 %	ISO 37
Tear strength	-	2 N/mm	based on ASTM D 624 B / 23°C / t = 2 mm

<sup>1</sup>Type 3 / 23°C / 2mm

<sup>2</sup>Type 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

- Measurement & Control, Sensor Technology
- Automotive Electronics

## Application details

Multipurpose grade for bonding, sealing and potting e.g in electronic applications.

## Processing

ELASTOSIL® N10 TRANSPARENT is a one-part room temperature vulcanizing sealant that cures to a flexible silicone rubber on exposure to atmospheric moisture. Higher humidity accelerates skin formation and curing as well as elevated temperature. However temperature shall not exceed 50°C during cure. During the crosslinking process, some oxime by-product is released.

After about 25 minutes a dry skin is formed. After formation of a sufficiently thick skin, glued parts may be handled without destruction. ELASTOSIL® N10 shows good primerless adhesion to many substrates. We recommend to run preliminary tests to optimize conditions for the particular application.

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.

**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® N10 TRANSPARENT, a total of 4% by weight of an oxime 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® N10 TRANSPARENT



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

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