

ELASTOSIL® N 189

RTV-1 Silicone Rubber / Adhesive

Characteristics

ELASTOSIL® N 189 (black) is a non-slump silicone rubber that cures at room temperature under the influence of atmospheric moisture.

Special characteristics

- Neutral-curing system (oxime)
- Non-slump
- Good resistance to mineral oil and antifreeze agents
- Excellent heat stability
- Excellent primerless adhesion to many substrates

Application

- Multipurpose adhesive for technical applications
- FIPG and CIPG applications

Processing

Skin-forming time, 23 °C / 50 % RH	25 min
Curing time, 23 °C / 50 % RH	24 h/mm

ELASTOSIL® N 189 (black) shows good primerless adhesion to many substrates. We recommend running preliminary tests to optimize conditions for the particular application.

Advice on use of this material as FIPG or CIPG sealant is given in our leaflet "Modern Sealing Techniques with Silicone Rubber", comprehensive instructions are given in our leaflet "ELASTOSIL® RTV-1 Silicone Rubber."

Product data (uncured)

Property	Test method	Unit	Value
Color			Black
Density at 23 °C	ISO 2811	[g/cm ³]	1.09
Extrusion rate (3-mm nozzle, pressure 0.21 N/mm ² , 23 °C)		[g/10s]	10

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

Product data (cured)

Property	Test method	Unit	Value
Color			Black
Density at 23 °C	ISO 2781	[g/cm ³]	1.10
Hardness Shore A	ISO 868		32
Elongation at break	ISO 37	[%]	250
Tensile strength	ISO 37	[N/mm ²]	2.0
Tear resistance	ASTM D 624 B	[N/mm]	7.0
Volume resistivity	DIN IEC 93	[Ω cm]	500

2 mm, 14 d storage at 23 °C / 50 % RH.

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Storage

ELASTOSIL® N 189 (black) has a shelf life of at least 9 months when stored between 5 °C and 25 °C in the originally sealed container. The 'Best use before end' date of each batch appears 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 information

During vulcanization of ELASTOSIL® N 189 (black) a total of 4 % by weight of an oxime is released. 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 causes irritation. However, if it happens, rinse thoroughly with water.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from Wacker subsidiaries.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001. The Business Unit Elastomers of the Division Silicones is ISO/TS 16949 certified.

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