

ELASTOSIL® N 9111 BLACK

RTV-1 SILICONE RUBBER

Product description

ELASTOSIL® N 9111 BLACK is a tin-free non-slump, one-component silicone, which cures at room temperature under the influence of atmospheric moisture.

Special features

- neutral-curing system (alcoxy)
- compatible to Pt curing silicone grades
- shear-thinning, non-slump paste
- excellent primerless adhesion
- stable and flexible from - 50 °C to + 200 °C
- medium hardness Shore A
- flame retardant: meets UL94 V-0

Application

Multipurpose glue for the appliance, automotive and electronics industry.

Processing

Due to its shear thinning nature ELASTOSIL® N 9111 BLACK is easy to apply. The material starts curing upon contact to air humidity. For typical curing parameters, see next table.

ELASTOSIL® N 9111 BLACK shows excellent primerless adhesion to many substrates, like glass, aluminium, stainless steel, PA and PBT.

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

Skin-forming time, 23 °C, 50 % RH	25 - 30 min
Curing time, 23 °C, 50 % RH	12 h/mm

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® N 9111 BLACK, a total of 3 % by weight of alcohol is split off. These vapours should not be inhaled for long periods or in high concentration. Work areas should therefore be well ventilated.

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>.

Product data

Typical general characteristics	Inspection Method	Value
Product data (uncured)		
Color		black
Density at 25 °C	ISO 1183-1 A	approx. 1,3 g/cm ³
Viscosity, dynamic at 25 °C (shear rate = 0,5 1/S)	ISO 3219	800000 mPa.s
Viscosity, dynamic at 25 °C (shear rate = 25 1/S)	ISO 3219	110000 mPa.s
Product data (cured)		
Color		black
Density at 23 °C in water	DIN EN ISO 1183-1 / ISO 2781	1,33 g/cm ³
Hardness Shore A	DIN 53 505 / ISO 868	30
Elongation at break	DIN 53504 S1 / ISO 37	500 %
Tensile strength	DIN 53504 S1 / ISO 37	2,20 N/mm ²
Tear strength	ASTM D 624	10,0 N/mm

2 mm, 14 d storage at 23 °C, 50 % RH

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

The data presented in this medium 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 medium 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 information provided by us does 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 product for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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

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