

ELASTOSIL[®] N9111 BLACK



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] N9111 BLACK is a non-slump, alkoxy-cure one-component silicone, which cures at room temperature under the influence of atmospheric moisture.

Properties

- excellent adhesion to many substrates
- no inhibition effect to platinum-catalysed grades
- no use of organotin catalysts
- medium hardness Shore A
- flame retardant: meets UL94 V-0
- Recommended service temperature from -45 °C to +180 °C

Specific features

- Broad adhesion profile
- Flame retardant
- High elongation
- High tear-resistant
- Non-corrosive to metals
- Non-slump
- Thixotropic
- Tin-free catalysis

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	black	-
Density	23 °C	1.30 g/cm ³	DIN EN ISO 2811
Viscosity, dynamic D = 0.5 1/s	25 °C	1000000 mPa·s	ISO 3219
Viscosity, dynamic D = 25 1/s	25 °C	100000 mPa·s	ISO 3219
Skin formation time	-	20 - 45 min	internal method
Curing speed	23 °C 50 % r.h	2 mm/d	-

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

Properties Cured

2 mm, 14 d storage at 23 °C, 50 % rh

Property	Condition	Value	Method
Color	-	black	-
Density in water	23 °C	1.33 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A	-	30	ISO 7619-1 / 23°C / d = 6 mm
Tensile strength ⁽¹⁾	-	2.0 N/mm ²	ISO 37
Elongation at break ⁽²⁾	-	450 %	ISO 37
Tear strength ⁽³⁾	-	8.5 N/mm	ASTM D 624 B

¹Type 3 / 23°C / 2mm

²Type 3 / 23°C / 2mm

³23°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
- Heating, Ventilation, Air Conditioning (HVAC)
- Formed-In-Place-Gaskets (Wet Type)

- Measurement & Control, Sensor Technology
- Automotive & Transport
- Small Appliances
- Automotive Electronics
- Small Appliances

Application details

Multipurpose glue for the appliance, automotive and electronics industry.

Processing

Due to its shear thinning nature ELASTOSIL® N9111 BLACK is easy to apply. The material starts curing upon contact to air humidity.

ELASTOSIL® N9111 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.

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® N9111 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>.

QR Code ELASTOSIL® N9111 BLACK



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

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