

ELASTOSIL® N 2080

RTV-1 Silicone Rubber / Adhesive and Sealant

Characteristics

ELASTOSIL® N 2080 is a self-levelling, one-part silicone rubber, which cures at room temperature under the influence of moisture.

Special characteristics

- Neutral curing system (alkoxy)
- Transparent
- Self-levelling
- Primerless adhesion to many substrates
- Solvent free

Application

- Adhesive and Sealant for electronic components

Processing

ELASTOSIL® N 2080 is a ready-to-use, acid- and solvent-free, non-corrosive RTV-1 (room temperature vulcanizing, one-component) silicone rubber suitable for many applications.

Good adhesion to plastics and metals in combination with an elasticity and durability open up a wide range of potential uses for ELASTOSIL® N 2080. ELASTOSIL® N 2080 exhibits outstanding resistance to weathering, ageing, moisture, and UV light. The vulcanized silicone rubber permanently remains elastic over a wide temperature range from -50 to +180 °C (-58 to +356 °F).

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.

Product data (uncured)

Property	Test method	Unit	Value
Color			Transparent
Density at 23 °C	ISO 2811	[g/cm³]	1.1
Viscosity at 23 °C shear rate D = 25 1/s	ISO 3219	[mPa s]	80,000
Skin-forming time, 23 °C / 59 % r.H.		[min]	20

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

Product data (cured)¹⁾

Property	Test method	Unit	Value
Color			Transparent
Density at 23 °C	ISO 1183-1 A	[g/cm³]	1.02
Hardness Shore A	ISO 868		27
Elongation at break	ISO 37	[%]	250
Tensile strength	ISO 37	[N/mm²]	1.5
Dielectric strength	IEC 60243	[kV/mm]	23
Volume resistivity	IEC 60093	[Ω cm]	10 ¹⁵
Dielectric constant (50 Hz)	IEC 60250	[εr]	2.7
Dissipation factor (50 Hz)	IEC 60250	[tan δ]	50 x 10 ⁻⁴
Tracking resistance	IEC 112	[CTI]	> 600

¹⁾ 2mm, 7 d storage at 23 °C, 50 % RH.

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Generally, we recommend running preliminary tests to optimize conditions for the particular application.

Storage

ELASTOSIL® N 2080 should be stored between 5 °C and 25 °C in the tightly closed original 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

Detailed safety information is contained in each Material Safety Data Sheet, which can be obtained from our sales offices.

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
DIN EN ISO 14001
The Business Unit Elastomers of the Division Silicones is ISO/TS 16949 certified.

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Version 2.00 from 07-06-05 replaces
Version 1.00 from 25-11-04

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

Wacker Chemie AG
WACKER-SILICONES
Hanns-Seidel-Platz 4
D-81737 Munich, Germany

www.wacker.com
info.elastosil-n@wacker.com