

NEUKASIL SN 2900

Silicone Rubber
addition-crosslinking

altropol

Main features

- very good flow properties
- high Shore A-hardness

Applications

- general mould making
- coating of fabrics
- embedding material and material for electrical insulation

Properties in the non-crosslinked state (approx. values)

		NEUKASIL SN 2900	NEUKASIL Crosslinker A 151 blue
Colour		white	blue
Mixing ratio	p.b.w.	100	10
Density (20 °C)	g/cm ³	1.2	1.1
Viscosity (20 °C)	mPa·s	12,000	350

Properties of the mixture (approx. values)

Mixed viscosity (25 °C)	mPa·s		9,000
Pot life (RT) (1000 g)	minutes		130
Curing time*	hours		24
Hardness (24h)	Shore A	DIN 53505	68
Hardness (7d)	Shore A	DIN 53505	70
Service temperature (briefly)	°C		240

* The vulcanization is temperature-dependent and is accelerated considerably by heat supply.

Mechanical values of the cured product after 1 hour of tempering at 70 ° C and 24 hours of storage at RT (approx. values)

Elongation at break	%	DIN 53504 S2	100
Tensile strength	N/mm ²	DIN 53504 S2	6.0
Resistance to tear propagation	N/mm	ASTM D 624 B	8.0
Linear dimensional change	%		0.1
Resistivity	Ω cm	DIN 53482	10 ¹⁵
Dielectric strength	KV/mm	DIN 53481	22
Dielectric constant	ε r	DIN 53483	3.0
Dissipation factor	δ 60 Hz	DIN 53483	0.008

RT = room temperature

How to process the material

Whenever working with silicone rubber NEUKASIL SN 2900, see that the receptacles used are clean and dry. **Prior to use, homogenize the material thoroughly.**

For the preparation of a batch being ready for processing, add the required quantity of crosslinker to the rubber and stir the compound until it is homogeneous. See that as little air as possible gets into the compound while stirring. To obtain a bubble-free vulcanized material, we recommend evacuating the crosslinker-containing formulation before continuing the processing. Certain substances may inhibit or decelerate the vulcanization of addition-crosslinking silicone rubbers. Such substances are among other things condensation-crosslinking silicones, organic rubbers, plasticizers, amines, heavy-metal compounds and sulphurous substances. When the vacuum is created, the mixture increases in volume by 3 – 4 times of its original volume under formation of bubbles. The degassing process is finished when the bubbles have collapsed and the formulation has reobtained its original volume. Avoid a longer stay of the crosslinker-containing formulation in the vacuum as otherwise you run the risk that proportions of the crosslinker are removed. Carefully pour the prepared material over the object to be cast without including bigger quantities of air again.

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When NEUKASIL SN 2900 is used as mould making material (production of negatives), there is no release agent required for demoulding. Should there still arise any problems, we recommend our NEUKADUR Release Agent SE or NEUKADUR Release Spray P 6. For the production of multipart moulds and to avoid an adhesion of NEUKASIL SN 2900 to itself, use the same release agents. Treat the surface of the part already vulcanized with release agent, then cast the second part of the mould.

For release agents, please visit our homepage under <http://www.altropol.de/en/produkte/weitere-produkte/trennmittel/>

Form of delivery

NEUKASIL SN 2900	1 kg	5 kg	25 kg
NEUKASIL Crosslinker A 151 blue	0.1 kg	0.5 kg	2.5 kg

Storage

We recommend keeping the material in tightly closed original receptacles at temperatures of 20 - 25 °C. When duly stored, the material can be used within the shelf life indicated on the labels (the first 2 digits of the batch number indicate the week, the 3rd digit indicates the year).

Measure of precaution

With the aid of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, the user can inform himself on the safe handling and storage of the products.

Our technical service - in words, in writing or by trials - is given according to the current state of our knowledge. It does however not relieve the customer/user from the duty to check by himself if the products supplied by us are suitable for the intended processes and purposes. Application, use and processing of the products take place beyond our control possibilities and lie therefore exclusively in the area of responsibility of the processor. Any existing property rights of third parties are to be considered. We guarantee the perfect quality of our products in accordance with our general terms and conditions of business. When handling our products you have to observe the legal rules and the rules for the industrial hygiene. As for the rest, we refer to the corresponding safety data sheets.

• 2017-09-04.3 / 4 / LW-W •

• www.altropol.de •

• Altropol Kunststoff GmbH • Rudolf-Diesel-Straße 9 - 13 • D-23617 Stockelsdorf • Tel. +49 (0)451-499 60-0 •
• Fax. +49 (0)451-499 60-20 • E - Mail: info@altropol.de •