

# NEUKASIL SN 2990

preliminary datasheet

Silicone Rubber

# altropol

## Main features

- addition-crosslinking
- low vulcanization hardness (gel)
- pronounced inherent tackiness
- very good flowing

## Applications

- potting of electrical components
- orthopedic products
- damping of sensitive component parts

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

		NEUKASIL SN 2990 Comp. A	NEUKASIL SN 2990 Comp. B
Colour		colourless	colourless
Mixing ratio	p.b.w.	100	100
Density (20 °C)	g/cm <sup>3</sup>	1.016	0.978
Viscosity	mPa·s	1,600	1,000

## Properties of the mixture and of the cured product (approx. values)

Mixed viscosity	mPa·s		1,300
Pot life (1000 g)	minutes		10
Penetration (24 h, RT)		hollow cone 15 g falling rod 47.5 g measurement 5 sec.	78
Hardness (24h)	Shore 00	DIN 53505	
Service temperature, short-term	°C		160
Linear dimensional change	%		0.1
Resistivity	Ω cm	DIN 53482	10 <sup>15</sup>
Dielectric strength	kV/mm	DIN 53481	22
Dielectric constant	ε r	DIN 53483	3.0
Dissipation factor	tan δ 60 Hz	DIN 53483	0.008

## How to process the material

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.

When the vacuum is created, the mixture may expand by 3 - 4 times of its original volume under formation of bubbles. The process is finished when the bubbles have collapsed and the formulation has reobtained its original volume. Carefully pour the prepared material over the object to be cast.

Whenever working with addition-crosslinking silicone rubbers, take care that the vessels used are clean and dry. Furthermore, the surface of the object to be cast should be dry and free from dirt.

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. Under unfavourable circumstances, it may happen that also surfaces having been in contact with the mentioned substances lead to vulcanization faults.

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

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The vulcanization of NEUKASIL SN 2990 begins after addition of the crosslinkers, and there are no cleavage products produced at all. At 20 to 25 °C, the vulcanization is to a large extent finished after 24 hours. The vulcanization speed is temperature-dependent and can be accelerated considerably by heat supply.

ProtoSil RTV is the designation for „Room Temperature Vulcanizing“ 2-component silicone rubber systems of ALTROPOL KUNSTSTOFF GmbH.

## **Form of delivery**

NEUKASIL SN 2990 Comp. A                      on request

NEUKASIL SN 2990 Comp. B                      on request

## **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.

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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.

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