

NEUKASIL RTV 29

Silicone Rubber
addition-crosslinking

altropol

Main features

- very soft silicone rubber
- very good flowability

Applications

- production of products for orthopaedics
- suitable for polyester, epoxides, wax
- casting of electric component parts
- production of parts, prototyping

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

				NEUKASIL RTV 29	NEUKASIL Crosslinker A 99
Colour				white	reddish brown
Density 20 °C	g/cm ³			0.98	0.95
Viscosity 20°C	mPas			4,000	140

Properties of the mixture (approx. values)

Mixing ratio	p.b.w.			100	5
Mixed viscosity	mPas				3,000
Pot life	(1000g) minutes				240
Tack-free	(RT) hours				24
Hardness	Shore 00				30
Service temperature	°C				180
Tensile strength	N/mm ²				
Elongation at break	%				
Resistance to tear propagation	N/mm ²				
Linear shrinkage	%				0.1
Resistivity	Ω cm				10 ¹⁵
Dielectric strength	KV/mm				22
Dielectric constant	ε r				3.0
Dissipation factor	δ 60 Hz				0.008

How to process the material

When mixing the compound, see that as little air as possible is enclosed. To obtain a bubble-free vulcanized material, we recommend evacuating the crosslinker-containing composition before continuing the processing. When the vacuum is created, the mixture may increase in volume by 3 to 4 times of its original volume under formation of bubbles. The process is finished when the bubbles have collapsed and the composition has reobtained its original volume. The prepared material is then poured carefully over the object to be moulded.

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Whenever working with addition-crosslinking silicone rubbers, take care that the vessels used are clean and dry. Also see that the surface of the object to be moulded is dry and free from impurities. Certain substances may prevent or decelerate the crosslinking of addition-crosslinking silicone rubbers. To these substances belong among other things condensation-crosslinking silicones, organic rubbers, plasticizers, amines, heavy-metal combinations and sulphurous combinations. Under unfavourable circumstances it may happen that also surfaces having been in contact with the aforementioned substances as well as certain modelling materials lead to vulcanization inhibitions.

When NEUKASIL RTV 29 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 N or NEUKADUR release spray P 6. For the production of multipart moulds and to avoid an adhesion of NEUKASIL RTV 29 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.

The vulcanization of NEUKASIL RTV 29 begins after addition of the crosslinker, and there are no cleavage products at all produced. At 20 – 25°C, the vulcanization is finished to a large extent after 24 hours. The vulcanization speed is temperature-dependent and can be accelerated considerably by heat supply.

Form of delivery

NEUKASIL RTV 26	1*; 5 and 25 kg
NEUKASIL Crosslinker A7 light-blue	0.05*; 0.25 and 1.25 kg

*= minimum order quantity: 6 working packages

Storage

The material should be kept in tightly closed original receptacles at temperatures of 15 - 25 °C. When duly stored, the materials can be used within the shelf life indicated on the labels.

Measure of precaution

Users should make use of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, to inform themselves on the safe handling and storage of the products.

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