

NEUKADUR ProtoCast 195
2C PUR-Vacuum Casting System
PS, transparent

altropol

Main features

- properties similar to those of PS
- transparent, light yellowish
- high restoring force
- very high impact strength
- very quick curing
- very easy to dye

Application

- prototyping
- production of technical parts

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

		NEUKADUR ProtoCast 195 Comp. A	NEUKADUR ProtoCast 195 Comp. B
Colour		transparent, slightly blue	transparent, slightly yellowish
Mixing rate	p.b.w.	70	100
Density 20 °C	g/cm ³	1	1.2
Viscosity 25 °C	mPa·s	900	500

Properties of the mixture (approx. value)

Mixed viscosity (25 °C)	mPa·s	800
Pot life	minutes	5
Demouldable (70 °C)	minutes	25

Mechanical values after 5 h 80 °C (approx. value)

Hardness	Shore D	DIN 53505	80
Colour			transparent
Tensile strength	MPa	DIN 53455	64
Tensile elongation	%	DIN 53455	21
Flexural strength	MPa	DIN 53452	110
Bending elongation	%	DIN 53452	12
Modulus in flexure	MPa	DIN 53457	1,900
Impact strength	KJ/m ²	DIN 51230	60
Dimensional stability under heat	°C	HDT	95
Linear dimensional change	%	500 x 50 x 25 mm	---

How to process the material

Preheat casting mould / tool to 70 °C, NEUKADUR ProtoCast 195 Comp. A to approx. 40 °C and degas and/or dehydrate the resin under full vacuum for 15 - 30 minutes. Mix component A and B under full vacuum for approx. 60 seconds. For casting, reduce the vacuum to approx. 100 mbar. The indicated mechanical values are only obtained after the above described tempering.

NEUKADUR ProtoCast 195 Comp. A and B are sensitive to low temperature and may become turbid. The occurrence is reversible in both cases. For component A, it is sufficient to keep the same subsequently at approx. 30 °C. Component B should be kept at approx. 80 °C and/or be homogenized thoroughly.

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The pot life of NEUKADUR ProtoCast 195 can be prolonged individually by addition of the pot life retarder NEUKADUR ProtoCast 195 L.

NEUKADUR ProtoCast 195 can be dyed ideally. For this, we recommend the use of AltroColor dye pastes, which are available in the common basic colours (see www.altrocolor.de).

Colour inks of other manufacturers should be tested for their suitability before use.

Form of delivery

NEUKADUR ProtoCast 195 Comp. A	0.70 kg	3.50 kg
NEUKADUR ProtoCast 195 Comp. B	1.00 kg	5.00 kg
NEUKADUR ProtoCast 195 L	0.70 kg	3.50 kg

Storage

The material should be kept in tightly closed original receptacles at temperatures of 20 - 25 °C. When duly store, 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

User 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 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.

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• www.altropol.de •

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