

NEUKADUR ProtoCast 112

2-C PUR Vacuum Casting System
PE / PP

altropol

Main features

- Properties similar to those of PE / PP
- low-viscous
- processible by hand
- very high impact strength

Applications

- prototyping
- production of parts
- universally for all kinds of moulds and patterns

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

		NEUKADUR ProtoCast 112	NEUKADUR Hardener PTG 8
Colour		milky white	yellowish
Mixing ratio	p.b.w.	100	75
Density 20 °C	g/cm ³	1.00	1.20
Viscosity 25 °C	mPa·s	260	400

Properties of the mixture (approx. values)

Mixed viscosity (25 °C)	mPa·s		360
Pot life (20 °C)	minutes		1.5
Demouldable after (70° C)	minutes		15
Hardness	Shore D	DIN 53505	78
Colour			ivory
Castable layer thickness	mm		5

Mechanical values (approx. values after 5 h 100 °C)

Tensile strength	MPa	DIN 53455	25
Tensile elongation	%	DIN 53455	18
Flexural strength	MPa	DIN 53452	32
Bending elongation	%	DIN 53452	23
Modulus in flexure	MPa	DIN 53457	460
Impact strength	KJ/m ²	DIN 51230	100
Dimensional stability under heat	°C	HDT	65
Linear dimensional change	%	500 x 50 x 25 mm	0.20

How to process the material

Prior to use, stir up NEUKADUR ProtoCast 112 thoroughly.

Mix both components intensively at room temperature according to the indicated mixing ratio.

Before casting, make sure that parts and moulds are free from humidity and non-evaporated release agent.

At temperatures below + 18°C, the NEUKADUR Hardener PTG 8 tends to crystallize.

This appearance is reversible at approx. 60 to 70 °C. Pay attention to the elevated vapour pressure (suction, if necessary).

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Form of delivery

NEUKADUR ProtoCast 112	1 kg	5 kg
NEUKADUR Hardener PGT 8	0.75 kg	3.75 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.

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