

**NEUKADUR ProtoCast 140**  
 2-C PUR Vacuum Casting System  
 ABS, highly resistant to heat (approx. 140 °C)

**altropol**

**Main features**

- properties similar to those of ABS
- coloured black
- fast curing
- high dimensional stability under heat
- high impact strength (after tempering)

**Applications**

- prototyping
- production of technical parts

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

		<b>NEUKADUR ProtoCast 140 Comp. A</b>	<b>NEUKADUR ProtoCast 140 Comp. B</b>
Colour		black	transparent colourless
Mixing ratio	p.b.w.	75	100
Density 20 °C	g/cm <sup>3</sup>	1,00	1.10
Viscosity 25 °C	mPa·s	2,400	750

**Properties of the mixture (approx. values)**

Mixed viscosity (25 °C)	mPa·s		1,200
Pot life (20 °C)	minutes		9
Demouldable after (70° C)	minutes		60
Hardness	Shore D	DIN 53505	80
Colour			black
Castable layer thickness	mm		5

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

Tensile strength	MPa	DIN 53455	61
Tensile elongation	%	DIN 53455	24
Flexural strength	MPa	DIN 53452	115
Bending elongation	%	DIN 53452	7
Modulus in flexure	MPa	DIN 53457	2,000
Impact strength	KJ/m <sup>2</sup>	DIN 51230	35
Dimensional stability under heat	°C	HDT	140
Linear dimensional change	%	500 x 50 x 25 mm	*

\* work in progress

**How to process the material**

Preheat casting mould/tool to 70 °C and NEUKADUR ProtoCast 140 Comp. A to approx. 40 °C and degas and/or dehydrate under full vacuum for 15 to 30 minutes under full vacuum.

Mix components A and B under full vacuum for approx. 30 to 45 seconds. For casting, reduce vacuum to approx. 100 mbar.

The indicated mechanical values are only obtained after the above described tempering.

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

# NEUKADUR ProtoCast 140

2-C PUR Vacuum Casting System  
ABS, highly resistant to heat (approx. 140 °C)

# altropol

## **Form of delivery**

NEUKADUR ProtoCast 140 Comp. A	0,75 kg	3,75 kg
NEUKADUR ProtoCast 140 Comp. B	1 kg	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.

• 2018-03-06.3 / 12 / LW-W •

---

• [www.altropol.de](http://www.altropol.de) •

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