

NEUKADUR ProtoCast 140 Comp. A/B

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

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Main features

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

Applications

- prototyping
- production of technical parts

			ProtoCast 140 Comp. A	ProtoCast 140 Comp. B
Colour			black	transparent colourless
Mixing ratio			75	100
Density 20 °C	g/cm ³		1.00	1.10
Viscosity mPas	(25 °C)		2000 - 2500	750
Mixed viscosity	(25 °C)			1200
Pot life in minutes	(20 °C)			7
Demoulding time/min	(70 °C)			45 - 60

Mechanical values (approx. values after 1 h 80 °C, 1 h 100 °C, 2 h 120 °C)

Hardness	Shore D	DIN 53505		80
Colour				black
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		2000
Impact strength	KJ/m ²	DIN 51230		35
Dimensional stability under heat	°C	HDT		140
Linear shrinkage	% approx.	500 x 50 x 25 mm		---

How to process the material

Preheat casting mould / tool to 70 °C, comp. A to 40 °C, if necessary, and degas and/or dehydrate under full vacuum for 10 to 20 minutes. Mix components A and B under full vacuum for approx. 30 – 45 seconds. For casting, reduce vacuum to approx. 100 mbar.

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Form of delivery

NEUKADUR ProtoCast 140 Comp. A	0.75 kg; 3.75 kg
NEUKADUR ProtoCast 140 Comp. B	1.00 kg; 5.00 kg

Storage

The material should be kept in tightly closed original receptacles at temperatures of more than 20°. When duly stored, the materials can be used within the shelf life indicated on the labels. It is however recommended to use up opened receptacles as soon as possible.

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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