

NEUKADUR ProtoCast 115

2-C PUR Vacuum Casting System
ABS

altropol

Main features

- Properties similar to those of ABS
- low-viscous
- high dimensional stability under heat
- very impact resistant

Applications

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

		ProtoCast 115	Hardener PTG 1	Hardener PTG 4
Colour		milky white	yellowish	brownish
Mixing ratio	p.b.w.	100	120	100
Density 20 °C	g/cm ³	1.00	1.20	1.20
Viscosity mPas	(25°C)	2,000	100	150
Mixed viscosity	(25°C)		800	1,000
Pot life in minutes	(20°C)		3 - 4	3 - 4
Demouldable (min)	(70°C)		30 - 45	30 - 45

Mechanical values (approx. values after 2h 80°C, in case of PTG 4 additionally 2h 110°C)

Hardness	Shore D	DIN 53505	83	83
Colour			light beige	beige
Tensile strength	MPa	DIN 53455	53	60
Tensile elongation	%	DIN 53455	15	13
Flexural strength	MPa	DIN 53452	100	105
Bending elongation	%	DIN 53452	10	8,5
Modulus in flexure	MPa	DIN 53457	1,700	1,750
Impact strength	KJ/m ²	DIN 51230	30	30
Dimensional stability under heat	°C	HDT	85	105
Linear shrinkage	% approx.	500 x 50 x 3 mm	0.10	0.10

How to process the material

ProtoCast 115 has to be homogenized thoroughly before use. Mix both components intensively with each other at room temperature (> 18°C) according to the indicated mixing ratio. Before casting make sure that parts and moulds are free from humidity and non-vaporized release agent. The indicated mechanical values are only obtained after the above described tempering. In case of lower layer thicknesses (approx. 1 – 3 mm), the times have to be doubled.

By using hardener NEUKADUR PTG 1 one obtains parts of a higher elasticity. By using hardener NEUKADUR PTG 4 one obtains a better dimensional stability under heat and a higher modulus in flexure.

NEUKADUR ProtoCast 115

2-C PUR Vacuum Casting System
ABS

altropol

Form of delivery

NEUKADUR ProtoCast 115	1 kg, 5 kg
NEUKADUR Hardener PTG 1	1 kg, 5 kg
NEUKADUR Hardener PTG 4	1 kg, 5 kg

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.

Altropol Kunststoff GmbH
Daimlerstraße 9 · D-23617 Stockelsdorf
Tel. +49 (0)451-499 60-0 · Fax +49 (0)451-499 60-20
E-mail: info@altropol.de
www.altropol.de

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 you from the duty to check by yourselves 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. State: 2009-03-03