

## NEUKADUR PN 1645

2-C PUR Casting System  
for Food Applications

# altropol

### Main features

- relatively fast curing
- very good flowability

### Applications

- general casting applications which come into contact with food

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

			NEUKADUR PN 1645 Component A	NEUKADUR PN 1645 Component B
Colour			milky	slightly yellowish
Density 20 °C	g/cm <sup>3</sup>		1.00	1.20
Viscosity 25°C	mPas		1000	800

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

Mixing ratio	p.b.w.		100	100
Mixed viscosity	mPas			900
Mixed density 20 °C	g/cm <sup>3</sup>			1.10
Pot life 23 °C	minutes			5
Demouldable/room temp.	minutes			60 - 90
Shore D-hardness	DIN 53505			80
Tensile strength [MPa]	DIN 53455			52
Tensile elongation [%]	DIN 53455			4
Flexural strength [MPa]	DIN 53452			88
Bending elongation [%]	DIN 53452			7
Modulus in flexure [MPa]	DIN 53457			2400
Impact strength [KJ/m <sup>2</sup> ]	DIN 51230			12
Dimensional stability under heat °C	HDT			60

\* work in progress

### How to process the material

Application temperature: room temperature

Thoroughly homogenize NEUKADUR PN 1645 Component A before use. Mix component A and component B intensively, then proceed to casting.

The cured castings are then suitable for food applications (dry food).

The test for so-called wet food is still expected.

Important:

At all events, the user has still to carry out a migration test and/or to have the same carried out.

All monomers are listed in the list "Substances Listed in EU Direction Food Contact Materials".

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Neukadur PN 1645 Comp. B may crystallize at < 20 °C. This appearance is reversible at +70 – 75 °C. After this, the material should be kept at 20 – 25 °C again.

The melting temperature should not exceed 80 °C, if possible (risk of dimerization).

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### Form of delivery

NEUKADUR PN 1645 Comp. A	1.0 kg - other sizes on request
NEUKADUR PN 1645 Comp. B	1.0 kg - other sizes on request

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### 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.

NEUKADUR PN 1645 Comp. B may slightly crystallize in the cold. The material has then to be liquefied again at 80°C, if necessary. Pay attention to vapour pressure MDI!

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### 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 products.

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

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

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