

NEUKADUR ProtoRIM 70 R

2-C PUR RIM System
PP / ABS

altropol

Main features

- Properties similar to those of PP / ABS
- medium-viscous
- processable by machine
- very high impact strength
- very fast curing

Applications

- prototyping
- production of technical parts
- small-lot production

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

| | | NEUKADUR ProtoRIM 70 R Comp. A | NEUKADUR ProtoRIM 70 R Comp. B |
|-----------------|-------------------|-----------------------------------|-----------------------------------|
| Colour | | light beige or black | brown |
| Mixing ratio | p.b.w. | 100 | 140 |
| Density 20 °C | g/cm ³ | 1.03 | 1.20 |
| Viscosity 25 °C | mPa·s | 1650 | 550 |

Properties of the mixture (approx. values)

| | | | |
|-----------------------------------|---------|-----------|----------------------|
| Mixed viscosity 25 °C | mPa·s | | 1.000 |
| Pot life | seconds | | 50 |
| Demoulding time at 20 ° 3–5 mm | min | | 13 |
| Hardness | Shore D | DIN 53505 | 70 |
| Colour | | | light ivory or black |

Mechanical values (approx. values after 4 h 70 °C)

| | | | |
|----------------------------------|-------------------|-----------------|------|
| Tensile strength | MPa | DIN 53455 | 20 |
| Tensile elongation | % | DIN 53455 | 95 |
| Flexural strength | MPa | DIN 53452 | 27 |
| Bending elongation | % | DIN 53452 | 25 |
| Modulus in flexure | MPa | DIN 53457 | 300 |
| Impact strength | KJ/m ² | DIN 51230 | >150 |
| Dimensional stability under heat | °C | HDT | 70 |
| Linear shrinkage | % | 500 x 50 x 3 mm | 0.17 |

How to process the material

NEUKADUR ProtoRIM 70 R has to be homogenized thoroughly before use.

To obtain optimal results, NEUKADUR ProtoRIM 70 R is ideally processed in 2-component low-pressure casting machines.

NEUKADUR ProtoRIM 70 R Comp. B may crystallize out at temperatures below 18 °C. This appearance is reversible. To get there, keep the material at approx. 80 °C for some hours and consider the elevated vapour pressure of the isocyanate (use exhauster, if necessary).

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When layers of more than 1 - 3 mm thickness or more important volumes shall be cast, NEUKADUR ProtoRIM 70 R Comp. A has to be retarded with NEUKADUR ProtoRIM VZ in order to reduce the reactivity of the system. When processing NEUKADUR ProtoRIM 70 R Comp. A/B without NEUKADUR ProtoRIM VZ (see particular data sheet) in layer thicknesses of > 3 mm, shrinkage effects and sink marks may occur to the casting.

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>

Form of delivery

| | | | |
|--------------------------------|--------|------|---------|
| NEUKADUR ProtoRIM 70 R Comp. A | 1 kg | 5 kg | 25 kg |
| NEUKADUR ProtoRIM 70 R Comp. B | 1,4 kg | 7 kg | 17,5 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.

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