

Main features

- properties similar to those of HD-PP
- medium-viscous
- can be processed by hand and machine
- very high impact strength

Applications

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

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

		NEUKADUR ProtoAmid 60	NEUKADUR ProtoAmid Comp. B 4	NEUKADUR ProtoAmid Comp. B 10
Colour		transparent amber	transp. brown	transp. colourless
Mixing ratio	p.b.w.	100	40	45
Density 20 °C	g/cm ³	1.00	1.17	1.15
Viscosity 25 °C	mPa·s	2,500	400	700

Properties of the mixture (approx. values)

Mixed viscosity 25 °C	mPa·s		1,500	2,000
Pot life	minutes		5	30
Demoulding time 70° C	minutes		45	75
Hardness	Shore D	DIN 53505	58	55
Colour			transp. amber	transparent amber

Mechanical values (approx. values after 5 h 80 °C)

Tensile strength	MPa	DIN 53455	20	16
Tensile elongation	%	DIN 53455	145	140
Flexural strength	MPa	DIN 53452	20	16
Bending elongation	%	DIN 53452	22	24
Modulus in flexure	MPa	DIN 53457	195	130
Impact strength	KJ/m ²	DIN 51230	>150	>150
Dimensional stability under heat	°C	HDT	100	90
Linear shrinkage	%	500 x 50 x 25 mm		

How to process the material

NEUKADUR ProtoAmid 60 has to be homogenized thoroughly before use. Preheat casting mould/tool to 70 °C. Before processing, degas ProtoAmid 60 for 5 – 10 minutes under full vacuum, then mix resin and the desired hardener intensively with each other according to the indicated mixing ratio. For casting, reduce the vacuum to approx. 50 mbar.

The indicated mechanical values are only obtained after the above mentioned tempering. For casting with NEUKADUR ProtoAmid Comp. B 4, we recommend the use of a pressure differential facility.

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

NEUKADUR ProtoAmid 60

2-C PUR Vacuum Casting System

HD-PP

altropol

Form of delivery

NEUKADUR ProtoAmid 60	1.00 kg	5.00 kg
NEUKADUR ProtoAmid Comp. B 4	0.40 kg	2.00 kg
NEUKADUR ProtoAmid Comp. B 10	0.45 kg	2.25 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 indicated 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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