

NEUKADUR EP 9860 NEW

Multipurpose Resin

altropol

Main features

- Epoxy resin system
- Pot life adjustable due to different hardeners
- very good impregnation and wetting properties
- AltroGreen EP 9860 NEW contains over 70 % of ingredients based on renewable raw materials
- CO₂ savings of over 690 kg CO₂ per ton (compared to petrochemical raw materials)

Applications

- special infusion resin
- production of composites made of glass-, carbon- or aramid fabrics
- general mould and tool making, gauge construction

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

		AltroGreen EP 9860 NEW	NEUKADUR Hardener 242	NEUKADUR Hardener 244	NEUKADUR Hardener 246
Colour		clear	clear	clear	clear
Mixing ratio	p.b.w.	100	30	30	30
Density	g/cm ³	1.1	1.0	1.0	1.0
Viscosity (25 °C)	mPa·s	600	80	100	80

Properties of the mixture (approx. values)

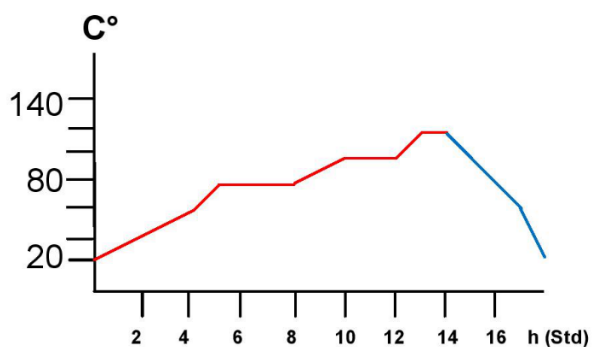
Mixed viscosity (25 °C)	mPa·s		300	350	300
Pot life (20°C, 500 g)	minutes		25	70	240
Demouldable	hours		24	24	48
Density	g/cm ³	DIN 53479	1.1	1.1	1.1
Hardness 24h / RT Points	Shore D	DIN 53505	82	84	70
Hardness 48h / RT Points	Shore D	DIN 53505	82	84	83

Mechanical values of the cured product - tempered step by step up to 120°C for 14 h (approx. values)

Modulus in flexure	MPa	DIN 53457	2.300	2.400	2.400
Flexural strength	MPa	DIN 53452	135	120	123
Dimensional stability under heat	Martens °C	DIN 53458	100	105	100
Glass transition temperature TG	°C	DSC 204 F1 DIN 51005	115	120	115

*RT = room temperature

Tempering cycle



A step-by-step tempering with ensuing cooling-down phase should be observed at all events!

How to process the material

Mix resin and hardener in the indicated mixing ratio until the compound is homogeneous. Processing of the material should be effected at temperatures between 10 °C and 30 °C, as far as possible. All common processing methods can be applied. The pot life depends on the kind of hardener used as well as on the ambient temperature.

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

Form of delivery

AltroGreen EP 9860 NEW	1 kg	5 kg	10 kg	30 kg	220 kg
NEUKADUR Hardener 242	0.3 kg	1.5 kg	5 kg	10 kg	25 kg
NEUKADUR Hardener 244	0.3 kg	1.5 kg	5 kg	10 kg	30 kg
NEUKADUR Hardener 246	0.3 kg	1.5 kg	5 kg	10 kg	30 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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