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|--------------------------|------------------------------|
| Basis | general purpose resin |
| Resin | AH 120 |
| Hardener | LI 20-1 |
| Colour | yellowish transparent |
| Further hardeners | LI 100-2 / LI 130-2 |

Applications

- Vehicle construction
- Aircraft construction
- Hand laminating
- Vacuum infusion, thin laminates

Properties

- unfilled
- low viscosity
- good heat resistance

Processing data

| Product | | Mixture AH 120 / LI 20-1 | Resin AH 120 | Hardener LI 20-1 |
|-----------------------|------------------------------------|-----------------------------|-----------------|-----------------------|
| Colour | | yellowish transparent | opaque | yellowish transparent |
| Mixing ratio | p. b. w. | | 100 | 35 |
| Viscosity at 25°C | mPas | 450 ± 100 | 850 ± 100 | 70 ± 10 |
| Density at 20°C | g / cm ³ | 1,10 ± 0,03 | 1,15 ± 0,03 | 0,98 ± 0,03 |
| Pot life 200 g / 20°C | min. | 20 - 25 | - | - |
| Curing time at RT | hrs. | 16 - 24 | - | - |
| Post curing | Time in h/ Temperature in °C | 4 / 60 + 6 / 90 | - | - |

Physical data

| Properties | Inspect. requirem. | Unit | Value |
|---|--------------------|-------------------|------------|
| Flexural strength | EN ISO 178 | MPa | 120 ± 10 |
| Flexural elongation at break | EN ISO 178 | % | 6,5 ± 0,3 |
| Flexural modulus | EN ISO 178 | MPa | 3150 ± 250 |
| Impact resistance (Charpy) | EN ISO 179 | kJ/m ² | 50 ± 10 |
| Compressive strength | EN ISO 604 | MPa | 100 ± 5 |
| Shore hardness | DIN ISO 7619-1 | Shore D | 85 ± 2 |
| Heat resistance (HDT) | DIN EN ISO 75 B | °C | 81 ± 3 |
| Glass transition temperature T _g | DSC | °C | ca. 71 |

Sales units (packages)

| | | | |
|-------|-------|---------|---|
| Units | Resin | AH 120 | 5,000 kg / 10,000 kg / 25,000 kg / 50,000 kg / 220,000 kg |
| | | LI 20-1 | 1,750 kg / 3,500 kg |

Processing instructions

The material and processing temperature should be between 18 and 25 °C.

The resin and hardener should be mixed intensively and as free of bubbles as possible at room temperature.

A heating rate of approx. 5 - 10 °C/hour is optimal. For difficult geometries, the use of a support mould is recommended.

The cooling rate should ideally be approx. 20 °C /hour.

In General

ebalta AH 120 is a very low viscosity unfilled epoxy resin with high strength values and high dimensional stability, with appropriate hardeners even at elevated temperatures.

Due to its good impregnating and wetting properties, **ebalta** AH 120/ LI 20-1 is suitable as infusion and laminating resin for smaller high-strength components or tools with fabrics made of glass or carbon fibres.

The hardeners LI 20-1 and LI 130-2 can be mixed with each other, thus pot lives between approx. 25 min. and approx. 150 min. can be achieved.

Storing

In temperature-controlled rooms at 18 - 25°C

Crystallisation occurring under unfavourable storage conditions can be reversed by heating to approx. 60 °C for some hours.

Always reseal opened containers immediately in a moisture-proof manner and use as soon as possible.

Please refer to the product labels for the shelf life of the material.

Safety measure

When processing this product, the protective measures recommended by the Employers' Liability Insurance Association of the Chemical Industry should be observed. Follow safety advice.

Waste Disposal

The cured materials can be disposed of as domestic or industrial waste after consultation with the relevant authorities.

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Always reseal opened containers immediately in a moisture-proof manner and use as soon as possible.

Please refer to the product labels for the shelf life of the material.

The instructions and recommendations are given in good faith and are based on long experience and careful tests. Since the conditions of use are beyond our control, and due to versatility of applications and working methods, we can't give any guarantee. All information are non-binding and are no guarantee for special characteristics or properties of the product. Despite information given from **ebalta** the customer has to make his own tests regarding applications and processing. If any special warranty is requested, written agreement on this subject is essential.