

|                   |  |
|-------------------|--|
| Basis             | <b>High strength general purpose resin</b> |
| Resin             | <b>AH 110</b>                              |
| Hardener          | <b>TL</b>                                  |
| Colour            | yellow transparent                         |
| Further hardeners | <b>TGL / TGS / GLD / TG / GL / D / SR</b>  |

## Applications

- Laminating resin also for heavy fabrics/bonded fabrics
- Bonding resin for fillers

## Properties

- unfilled
- high strength
- high heat resistance
- medium viscosity

## Processing data

| Product               |                                    | Mixture<br>AH 110 / TL   | Resin<br>AH 110    | Hardener<br>TL     |
|-----------------------|------------------------------------|--------------------------|--------------------|--------------------|
| Colour                |                                    | yellow transparent       | yellow transparent | yellow transparent |
| <b>Mixing ratio</b>   | <b>p. b. w.</b>                    |                          | <b>100</b>         | <b>24</b>          |
| Viscosity at 25°C     | mPas                               | 1400 ± 200               | 2000 ± 300         | 300 ± 50           |
| Density at 20°C       | g / cm <sup>3</sup>                | 1,13 ± 0,02              | 1,17 ± 0,02        | 0,96 ± 0,02        |
| Pot life 200 g / 20°C | min.                               | 85 - 95                  | -                  | -                  |
| Curing time at RT     | hrs.                               | 24 - 28                  | -                  | -                  |
| Post curing           | Time in h/<br>Temperature in<br>°C | 6 - 8 / 60<br>3 - 5 / 90 | -                  | -                  |

## Physical data

| Properties                      | Inspect. requirem. | Unit              | Value      |
|---------------------------------|--------------------|-------------------|------------|
| Flexural strength               | EN ISO 178         | MPa               | 140 ± 10   |
| Flexural modulus                | EN ISO 178         | MPa               | 3400 ± 300 |
| Flexural strength at breakage   | EN ISO 178         | %                 | 6,3 ± 0,5  |
| Compressive strength            | EN ISO 604         | MPa               | 115 ± 10   |
| Impact resistance (Charpy)      | EN ISO 179         | kJ/m <sup>2</sup> | 36 ± 10    |
| Heat resistance (HDT)           | DIN EN ISO 75 B    | °C                | 100 ± 3    |
| Glass transition temperature TG | methode DSC        | °C                | 110        |
| Shore hardness                  | DIN 53505          | Shore D           | 86 ± 3     |

## Sales units (packages)

|       |          |        |   |
|-------|----------|--------|---|
| Units | Resin    | AH 110 | 5,000 kg / 10,000 kg / 25,000 kg / 50,000 kg / 220,000 kg |
|       | Hardener | TL     | 2,500 kg / 5 kg / 50 kg / 200 kg                          |

## Processing instructions

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

The mixing of resin and hardener should be made intensively and if possible without any bubbles at room temperature.

## In General

**ebalta** AH 110 is an unfilled epoxy resin with high strength values and dimensional stability, even at increased temperature. It can be used as casting resin with powdered fillers as aluminium powder, laminating resin with glass fabric and binder with grainy fillers as aluminium granules. Depending on application the suitable hardener can be mixed with the resin.

AH 110/TL is suitable as binder and backfilling resin up to 100°C. For laminates post-curing is essential, if possible before demoulding.

## Storing

At appropriate storage 18-25°C.

Occuring crystallization due to disadvantageous storage conditions can be made return by warming up the material at approx. 60° C.

Already opened containers should be closed immediately after use and be protected against moisture. This material should be used as soon as possible.

Information about the expiration date you find on the sales packages.

## Safety measure

Please follow the precaution instructions of the Government Safety Organisation of the chemical industry when working with this material. Please follow safety advices !

## Waste Disposal

According to arrangement with local authorities cured material can be disposed as domestic or commercial waste.

Non-cured products are waste which is subject to inspection and has to be disposed accordingly.

In case of further questions please do not hesitate to contact our Department for Product Safety.

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.

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