

Basis **high strength general purpose resin**
 Resin **AH 110**
 Hardener **TGS**

Colour yellow transparent
 Further hardeners **TL / TGL / GLD / TG / GL / D / SR**

Applications

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

Properties

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

Processing data

Product		Mixture AH 110 / TGS	Resin AH 110	Hardener TGS
Colour		yellow transparent	yellow transparent	yellow transparent
Mixing ratio	p. b. w.		100	22
Viscosity at 25°C	mPas	1300 ± 200	2000 ± 300	320 ± 75
Density at 20°C	g / cm ³	1,13 ± 0,02	1,17 ± 0,02	0,96 ± 0,02
Pot life 200 g / 20°C	min.	20 - 25	-	-
Curing time at RT	hrs.	6 - 8	-	-
Post curing	Time in h/ Temperature in °C	12 / 80	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	128 ± 10
Flexural modulus	EN ISO 178	MPa	3300 ± 300
Flexural strength at breakage	EN ISO 178	%	6,0 ± 1,0
Compressive strength	EN ISO 604	MPa	110 ± 10
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	20 ± 8
Heat resistance (HDT)	DIN EN ISO 75 B	°C	99 ± 3
Glass transition temperature TG	methode DSC	°C	97
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 TGS 1,000 kg / 1,500 kg / 2,000 Kg / 5,000 kg / 50,000 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

AH 110 is a non-filled epoxy resin with high strength and dimensional stability, even at increasing temperature.
It also can be used as casting resin with powder fillers as aluminium powder, as laminating resin with glass fabrics and as binding resin with granular fillers as aluminium granules.

Depending on the application it just needs to use a different hardener for the mixture.

As laminating resin AH 110 / TGS is suitable for thin high solid laminates.

Storing

At appropriate storage (18-25°C) in closed original container 12 months. 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.

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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