

Basis	Laminating resin
Resin	AH 120
Hardener	TGL
Colour	whitish transparent
Further hardeners	GL / TG / TGS / TL-1

Applications

- Vehicle construction
- Aircraft construction
- Laminating resin

Properties

- unfilled
- low viscosity
- high heat resistance

Processing data

Product		Mixture AH 120 / TGL	Resin AH 120	Hardener TGL
Colour		whitish transparent	opaque	yellowish transparent
Mixing ratio	p. b. w.		100	22
Viscosity at 25°C	mPas	620 ± 50	725 ± 175	100 ± 20
Density at 20°C	g / cm ³	1,12 ± 0,02	1,15 ± 0,03	0,96 ± 0,01
Pot life 200 g / 20°C	min.	60 - 70	-	-
Curing time at RT	hrs.	18 - 24	-	-
Post curing	Time in h/ Temperature in °C	6 - 8 / 50 - 60 3 - 5 / 80 - 90	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	125 ± 10
Flexural elongation at break	EN ISO 178	%	6,8 ± 0,5
Flexural modulus	EN ISO 178	MPa	3200 ± 250
Flexural elongation at break	ISO 37	%	-
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	45 ± 5
Compressive strength	EN ISO 604	MPa	110 ± 10
Shore hardness	DIN ISO 7619-1	Shore D	87 ± 2
Heat resistance (HDT)	DIN EN ISO 75 B	°C	97 ± 3
Coefficient of thermal expansion	internal test / Dilatometer	10 ⁻⁶ K ⁻¹	-
Linear shrinkage	internal	%	-

Sales units (packages)

Units	Resin hardener	AH 120 TGL	5,000 kg / 10,000 kg / 25,000 kg / 50,000 kg / 220,000 kg 11 kg / 5 kg / 50 kg
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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/TGL is suitable as a laminating resin for high-strength components or tools with fabrics made of glass or carbon fibres. Thin as well as thick, large-area laminates up to a thickness of 8 mm can be laminated.

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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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.