

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

Applications

- Laminating resin also for heavy fabrics/bonded fabrics
- Vehicle construction
- Aircraft construction

Properties

- unfilled
- high heat resistance
- low viscosity
- high strength

Processing data

Product		Mixture AH 120 / TL	Resin AH 120	Hardener TL
Colour		whitish transparent	milky filmy	yellow transparent
Mixing ratio	p. b. w.		100	25
Viscosity at 25°C	mPas	800 ± 100	850 ± 100	300 ± 50
Density at 20°C	g / cm ³	1,11 ± 0,02	1,15 ± 0,02	0,96 ± 0,02
Pot life 200 g / 20°C	min.	80 - 90	-	-
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 modulus	EN ISO 178	MPa	3300 ± 250
Flexural strength at breakage	EN ISO 178	%	6,4 ± 0,2
Compressive strength	EN ISO 604	MPa	107 ± 10
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	50 ± 5
Heat resistance (HDT)	DIN EN ISO 75 B	°C	98 ± 3
Shore hardness	DIN 53505	Shore D	86 ± 2

Sales units (packages)

Units	Resin	AH 120	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 120/TL is a very thin liquid epoxy resin with high values of strength and dimensional stability. Due to its good impregnating and wetting properties it is suitable as laminating resin for high-strength components with fabrics of glass –or carbon fiber.

ebalta AH 120/TL is suitable for laminating of thin as well as thick laminates with large surface up to a thickness of 20 mm.

A post-curing should be executed, if possible before demoulding.

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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