

Basis	high temperature resistant laminating resin
Resin	LH 30
Hardener	LH 30
Colour	brown transparent

Applications

- High temperature resistant laminate moldings
- RIM - mouldings
- Prepreg tool

Properties

- low exothermic character
- long processing time
- medium viscosity
- very high heat resistance
- heat curing

Processing data

Product		Mixture LH 30 resin+hardener	Resin LH 30	Hardener LH 30
Colour		brown transparent	yellow transparent	brown transparent
Mixing ratio	p. b. w.		100	42
Viscosity at 25°C	mPas	2200 ± 500	2000 ± 500	2400 ± 500
Density at 20°C	g / cm ³	1,08 ± 0,02	1,12 ± 0,03	0,98 ± 0,02
Pot life 200 g / 20°C	min.	160 - 200	-	-
Curing time at RT	hrs.	> 48	-	-
Post curing	Time in h/ Temperature in °C	4 - 6 / 40 4 - 6 / 60 4 - 6 / 100 4 - 6 / 150	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	68 ± 6
Flexural modulus	EN ISO 178	MPa	3100 ± 250
Flexural strength at breakage	EN ISO 178	%	2,4 ± 0,2
Compressive strength	EN ISO 604	MPa	100 ± 10
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	4,5 ± 1
Heat resistance (HDT)	DIN EN ISO 75 B	°C	181 ± 5
TG in TMA T _G	Methode TMA	°C	200
Shore hardness	DIN 53505	Shore D	88 ± 3

Sales units (packages)

Units	resin	LH 30	20 kg
	hardener	LH 30	8,4 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 LH 30 is a two components epoxy laminating resin, precuring at room temperature and, depending on postcuring, can be used till 175°C.
Since this laminating resin system contains no fillers, it has got good wetting properties and makes a high glass fabric content possible. This leads to a low coefficient of thermal expansion and high strength.
Together with aluminium granules, **ebalta** LH 28-1 is suitable for back filling of heat resistant moulds and moulding tools. Through step-by-step curing a high heat resistance will be reached. Cool down slowly to room temperature!

Postcuring:

- 4 - 6 h bei 40° C
- 4 - 6 h bei 60° C
- 4 - 6 h bei 100° C
- 4 - 6 h bei 150° C

By additional postcuring of 4 hrs. at 160 °C-180°C Tg of about 200 °C will be reached.

We recommend to perform the complete postcuring on the master model, at least the first one should be made this way.

Storing

Storage at room temperature (18-25 °C) in closed original container 6 months.

Close open containers after use, keep away from moisture and use up immediately.

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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