Technical Datasheet

LH 22 / GL

Basis	**Laminating resin**
Resin	**LH 22**
Hardener	**GL**
Colour	white

Applications

- Laminate molds
- Control gauges
- Master models
- Fixtures

Properties

- dimensionally accurate
- long potlife
- low exothermic character

Processing data

Product		**Mixture LH 22 / GL**	**Resin LH 22**	**Hardener GL**
Colour		white	white	yellow clear
Mixing ratio	**p. b. w.**		**100**	**25**
Viscosity at 25°C	mPas	1300 ± 200	1800 ± 200	750 ± 150
Density at 20°C	g / cm^3	1,35 ± 0,03	1,42 ± 0,03	1,00 ± 0,02
Pot life 200 g / 20°C	min.	40 - 45	-	-
Curing time at RT	hrs.	16 - 24	-	-
Post curing	Time in h/ Temperature in °C	-	-	-

Physical data

Properties	**Inspect. requirem.**	**Unit**	**Value**
Flexural strength	EN ISO 178	MPa	100 ± 10
Flexural elongation at break	EN ISO 178	%	3,6 ± 0,4
Flexural strength	DIN 53452	MPa	-
Flexural modulus	EN ISO 178	MPa	3960 ± 150
Flexural elongation at break	ISO 37	%	-
Impact resistance (Charpy)	EN ISO 179	kJ/m^2	18 ± 3,5
Compressive strength	EN ISO 604	MPa	95 ± 0,8
Heat resistance (HDT)	DIN EN ISO 75 B	°C	64 ± 2
TG in TMA T_G	Methode TMA	°C	-
Shore hardness	DIN ISO 7619-1	Shore D	86 ± 3
Coefficient of thermal expansion	internal test / Dilatometer	$10^{-6}K^{-1}$	-
Linear shrinkage	internal	%	-
Compressive strength	DIN 53454	MPa	-

Sales units (packages)

Packing size	B-Pack	LH 22 / GL	Resin 6 x 0,800 kg / Hardener 6 x 0,200kg = 6,000 kg
Units	Resin	LH 22	6,000 kg / 20,000 kg / 220,000
	Hardener	GL	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.

We recommend a post curing with a temperature rise of about 10°C/hour. Difficult geometries should be supported during the curing cycle. Afterwards the part should be cooled down at about 20°C/hour.

In General

ebalta LH 22 is an epoxy laminating resin, which, depending on its application, can be used with the slow GL hardener or the faster GR hardener.
They distinguish by minimal physiolgical effects.
Regarding dimensional accuracy and –stability, laminates made of **ebalta** LH 22, even come up to great demands.
Due to its long potlife **ebalta** LH 22/GL is especially suitable for large-area and thick laminates, which also with a thickness of more than 10 mm, applied in one step, cure without any shrinkage at room temperature.

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 for some hours.
Opened containers should be closed immediately after use and be protected against moisture. This material should be used up as soon as possible.

Shelf life is indicated on the labels

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.