

Basis	carbonfibre filled mould surface resin
Resin	OH 82
Hardener	TM
Colour	black

Applications

- Prepreg tool

Properties

- very low thermal expansion
- very high heat resistance
- dimensionally accurate

Processing data

Product		Mixture OH 82 / TM	Resin OH 82	Hardener TM
Colour		black	black	brown transparent
Mixing ratio	p. b. w.		100	31
Viscosity at 25°C	mPas	thixotrop	thixotrop	375 ± 75
Density at 20°C	g / cm ³	1,22 ± 0,02	1,35 ± 0,03	0,97 ± 0,02
Pot life 200 g / 20°C	min.	220 - 260	-	-
Curing time at RT	hrs.	24 - 48	-	-
Post curing	Time in h/ Temperature in °C	16 / 60 8 / 130 4 / 160	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	90 ± 4
Flexural modulus	EN ISO 178	MPa	4630 ± 300
Flexural strength at breakage	EN ISO 178	%	-
Tensile strength	EN ISO 527	MPa	-
Tensile strength / test piece type 2	ISO 37	MPa	-
Elongation at break	ISO 37	%	-
Compressive strength	EN ISO 604	MPa	105 ± 7
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	7,3 ± 1,5
Heat resistance (HDT)	DIN EN ISO 75 B	°C	>150
Glass transition temperature TG	TMA	°C	175
Shore hardness	DIN 53505	Shore D	87 ± 3
Coefficient of linear expansion	DIN 53752	10 ⁻⁶ K ⁻¹	ca. 50

Sales units (packages)

Packing size A-Pack OH 82 / TM resin 12 x 0,285 kg / hardener 12 x 0,090 kg = 4,500 kg

Processing instructions

The temperature of material and processing should be between 18 and 25° C.

After each use the containers have to be closed again.

Porous mould surfaces should be sealed before (**ebalta** sealant).

For an optimum mould release we recommend a suitable release agent (e.g. T 1-1) which can be easily applied with a brush.

The mould should be treated 2 or 3 times with release agent and allowed to evaporate for approx. 20 min after every application.

When you apply the second layer of gelcoat or the reinforcement the gelcoat has to be still tacky.

Mixing ratio resin/hardener according to instructions!

Stirring rods etc. with residual resin can be easily cleaned with **ebalta** cleaning agent.

In General

ebalta OH 82 is a 2 components epoxy gel coat. Filled with micro carbon fibre and after thermal treatment it shows high temperature resistance and low heat expansion. In combination with our laminating resin system LH 28-1/TM and carbon fibre very dimensionally accurate heat resistant prepreg moulds can be built. A suitable primer coat is KP 7-1/TM.

Storing

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

Already opened containers should be closed immediately after use and 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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