Technical
Datasheet

KP 7-1 / TM

ebalta
solution takes shape

Basis	**High temperature resistant coupling paste**
Resin	**KP 7-1**
Hardener	**TM**
Colour	grey

Applications

- Couplingpaste for OH 33/HM
- Couplingpaste for OH 35/HM
- Couplingpaste for OH 38/HM
- Couplingpaste for LH28-1/TM

Properties

- high heat resistance
- aluminium filled

Processing data

Product		**Mixture KP 7-1 / TM**	**Resin KP 7-1**	**Hardener TM**
Colour		grey	grey	brown transparent
Mixing ratio	**p. b. w.**		**100**	**32**
Viscosity at 25°C	mPas	thixotrope	thixotrope	375 ± 75
Density at 20°C	g / cm^3	1,3 ± 0,05	-	0,97 ± 0,02
Pot life 200 g / 20°C	min.	240 - 360	-	-
Curing time at RT	hrs.	24 - 48	-	-
Post curing	Time in h/ Temperature in °C	post curing necessary (look back side)	-	-

Physical data

Properties	**Inspect. requirem.**	**Unit**	**Value**
Flexural strength	EN ISO 178	MPa	-
Flexural modulus	EN ISO 178	MPa	-
Flexural strength at breakage	EN ISO 178	%	-
Compressive strength	EN ISO 604	MPa	-
Impact resistance (Charpy)	EN ISO 179	kJ/m^2	-
Heat resistance (Martens)	DIN 53458	°C	-
Shore hardness	DIN 53505	Shore D	-
Coefficient of linear expansion	DIN 53752	$10^{-6}K^{-1}$	-

Sales units (packages)

Packing size	A-Pack	KP 7-1 / TM	Resin 12 x 0,200 kg / hardener 12 x 0,064 kg = 3,168 kg
Units	Resin	KP 7-1	3,000 kg
	Hardener	TM	1,500 kg

Processing instructions

The coupling paste is applied in a 1 mm layer on the gelled but still sticky surface.

In General

ebalta KP 7-1 is an aluminium powder-filled coupling paste, precuring at room temperature and can be used till 150°C after thermal treatment.
KP 7-1 serves as coupling paste for our reeinforcing paste PS 07-1 and our laminating resin LH 28-1.
We recommend to perform the complete postcuring on the master model, at least the first one should be made this way. Not more than 20°C/h for heating up and cooling down.
Moreover the heating up time of the moulding has to be considered too!

High heat resistance is reached by step-by-step curing (at about 20°C/h).

Glass transition temperature (TG) 95 °C: after curing 4 h at 40 °C + 4 until 10 h at 60 °C
Glass transition temperature (TG) 139 °C: after curing 4 h at 40 °C + 4 until 10 h at 60 °C + 4 h at 100 °C
Glass transition temperature (TG) 175 °C: after curing 4 h at 40 °C + 4 until 10 h at 60 °C + 4 h at 100 °C + 4 h at 135 °C

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.

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