

Basis	<b>Polyurethane casting resin</b>
Resin	<b>MG 321 FR Comp. A</b>
Hardener	<b>MG 321 FR Comp. B</b>
Colour	beige

### Applications

- Cladding parts EDP field
- Cladding parts medical sector

### Properties

- flame retardant
- high heat resistance

### Processing data

Product		Mixture MG 321 FR/Comp. A+B	Resin MG 321 FR Comp. A	Hardener MG 321 FR Comp. B
Colour		beige	beige	brown
<b>Mixing ratio</b>	<b>p. b. w.</b>		<b>100</b>	<b>50</b>
	<b>volume</b>		100	51
Viscosity at 25°C	mPas	2000 ± 500	3400 ± 500	120 ± 20
Density at 20°C	g / cm <sup>3</sup>	1,23 ± 0,03	1,24 ± 0,03	1,22 ± 0,03
Pot life at 20°C	seconds	70 - 80	-	-
Curing time at 50° C	min.	20 - 30	-	-
Post curing	Time in h/ Temperature in °C	4 / 80 + 2 / 120	-	-

### Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	64 ± 5
Flexural modulus	EN ISO 178	MPa	2000 ± 100
Flexural strength at breakage	EN ISO 178	%	7,2 ± 0,5
Compressive strength	EN ISO 604	MPa	68 ± 5
Impact resistance (Charpy)	EN ISO 179	kJ/m <sup>2</sup>	21 ± 2
Heat resistance (HDT)	DIN EN ISO 75 B	°C	120 ± 3
Shore hardness	DIN 53505	Shore D	80 ± 3
Flammability coating thickness 3 mm	according UL 94	-	VO

### Sales units (packages)

## Processing instructions

It is essential to stir component A before use, as the additives tend to sedimentation. Component B has not to be stirred.

The moulding tools should be made of a polyurethane- resp. epoxy resin system, with a high-quality surface.

In order to improve the surface appearance of the component, it is possible:

- to preheat the material to 30°C
- to preheat the moulds to 40 - 50°C

A combination of preheated material and moulds is the optimum.

The wall thicknesses of the components are approx. 4 mm. Ribs or bigger material accumulations can also be produced.

The shrinkage is 0,5 %. But the shrinkage can be slightly influenced by the geometry of the respective component.

The components can be demoulded after approx. 20 - 30 min. This can differ accordingly to wall thickness and temperature.

The postcuring has to be made by means of a supporting structure.

## In General

**ebalta** MG 321 FR is processed on a two-component low pressure device.

After grinding with a sand paper , grit 280, the surface can be varnished with a commercial lacquer. For better adhesion we recommend the use of a primer coat. Nitrocellulose lacquers have a better adhesion on polyurethane surfaces than on acryl-lacquer-systems.

Release agent – please see category release agent

## Storing

At appropriate storage (18 - 25 °C) in closed original container 6 months.

Already opened containers should be closed immediately after use and be protected against moisture. This material should be used up 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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