

## ebalta EGM-PU-21

ebalta **EGM-PU-21** is a low viscosity casting compound on polyurethane resin basis formulated with non-abrasive fillers. Non-flammable formed parts of impact strength result after the curing. A coloured pigmentation is possible.

ebalta **EGM-PU-21** is distinguished by very good electric and mechanical properties also at low and higher temperatures.

ebalta **EGM-PU-21** will be tested according to UL 94-flammability test and will have VO at a thickness of 3 mm. The setting is made halogen-free.

### Characteristics:

Properties	test specifications	Dimension	Comp. A	Comp. B
Colour	-	-	acc. to pigmentation	brown
Viscosity 25 °C	DIN 53018 T1	mPas	3500 - 4500	100 - 200
Density 20 °C	DIN 51757	g/cm <sup>3</sup>	1,50 - 1,55	1,20 - 1,22
Mixing ratio	-	pbw	100	: 30
Mixing viscosity at 25 °C	DIN 53018 T1	mPa.s	1000	- 1500
Pract. processing time - „DWZ“ 25 °C	-	Min.	-	60*
Gelling time 25 °C	DIN 16945	Min.	120	- 150*
Hardening or post curing		h/bei °C		24 / 25
		h/bei °C		5 / 80

\* The processing respectively gelling time can be adjusted individually.

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### Use:

**ebalta EGM-PU-21** is suitable for the sealing of electric and electronic components, i.e. transformers, capacitors, coils and as a multi-purpose casting compound where flame protection VO in minimum layer thickness is requested. **ebalta EGM-PU-21** can be sealed both under standard conditions and also in a vacuum.

### Storage stability:

In closed packing units at 20 - 25 °C: 6 months

### Characteristics of the formed parts:

Hardening conditions:	24 h at 25 °C + 5 ° h at 80 °C		
Flexural strength	DIN 53452	MPa	45 - 55
Flexion	DIN 53452	mm	15
Impact strength	DIN 53453	mJ/mm <sup>2</sup>	15 - 20
Resistance to pressure	DIN 53454	MPa	60 - 65
Tensile strength	DIN 53455	MPa	25 - 30
Elongation	DIN 53455	%	10 - 15
Shore D hardness	DIN 53505	-	70 - 75
Density 20/4 °C	DIN 53479	g/cm <sup>3</sup>	approx. 1,40
Heat distortion according to Martens	DIN 53462	°C	35
Temperature index	IEC 216 - 2	°C	TI approx. 125
Water absorption D 96/25	DIN 53495	%	0,20 - 0,25
Water absorption up to saturation - 25 °C/ after d		%	0,40 - 0,45 / 150
Boiling test 4h	DIN 53471	%	1,2

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Spec. forward resistance $R_D$	DIN VDE 0303 T3	Ohm x cm	$1 \times 10^{14}$
ditto after water-storage D 48/50	DIN VDE 0303 T3	Ohm x cm	$1 \times 10^{14}$
ditto after water-storage D 750/50	DIN VDE 0303 T3	Ohm x cm	$1 \times 10^{13}$
Surface resistance $R_{OA}$ , dry	DIN VDE 0303 T3	Ohm	$1 \times 10^{13}$
ditto after water-resistance D 48/50	DIN VDE 0303 T3	Ohm	$1 \times 10^{12}$
Dielectric-strength $E_D$	DIN VDE 0303 T2	KV/mm	25 - 30
Dielectric loss factor $\tan \delta$	DIN VDE 0303 T4	25 °C	0,04
		40 °C	0,06
		60 °C	0,12
		80 °C	0,22
		110 °C	0,53
Relative permittivity $E_r$	DIN VDE 0303 T4	25 °C	3,4
		40 °C	3,9
		60 °C	4,0
		80 °C	4,6
		110 °C	5,4
Comparative figure of the tracking	DIN VDE 0303 T1	CTI 600 M	CTI > 600 M (with wetting agent)
Electrolytic corrosion	DIN 53489		A/B 1,4
Combustibility*	UL-94	stage	VO 3,2 mm
Heat conductivity	DIN 51046 modif.	W/m.k.	0,65

\* (test certificate can be requested).

## **ebalta EGM-PU-21**

### **Notice:**

These data and recommendations have been compiled thoroughly on the basis of comprehensive trials and many years of practical experiences. As, however, we are not able to control the processing of the consumer, we cannot give security for the individual case regarding the versatility of the application possibilities and the working methods.

### **Safety measures in case of processing:**

In case of processing of these products the safety measures recommended by the trade association of the chemical industry should be noticed. Observe the safety advices!

This leaflet supercedes all other versions.

Our general terms of business are applicable.

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