

## ebalta EGM-PU-32 FR

**ebalta EGM-PU-32 FR** 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.

**ebalta EGM-PU-32 FR** is distinguished by very good electric and mechanical properties also at low and higher temperatures.

**ebalta EGM-PU-32 FR** will be tested according to UL 94-flammability test and will have VO at a thickness of 4 mm. The setting is made halogen-free.

### Characteristics:

Properties	test specifications	Dimension	Comp. A	Comp. B
Colour	-	-	beige	transparent-brown
Viscosity 25 °C	DIN 53018 T1	mPas	3250 - 4800	70 - 120
Density 20 °C	DIN 51757	g/cm <sup>3</sup>	1,60 - 1,65	1,20 - 1,23
Mixing ratio	-	pbw	100	: 20
Mixing viscosity at 25 °C	DIN 53018 T1	mPa.s	1400	- 2000
Gelling time 25 °C	DIN 16945	Min.	12	- 17
Hardening or post curing		h/bei °C		24 / 25
		h/bei °C		5 / 80

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### Use:

**ebalta EGM-PU-32 FR** 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-32 FR** can be sealed both under standard conditions and also in a vacuum.

### Storage stability:

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

**ebalta EGM-PU-32 FR** includes filler materials tending to settle within certain limits, depending on storage temperatures. Therefore ,thorough stirring is absolutely necessary prior to the mixing process.

### Characteristics of the formed parts:

Hardening conditions:	24 h at 25 °C + 3 h at 110 °C		
Flexural strength	DIN 53452	MPa	60 - 70
Flexion	DIN 53452	%	2,5 – 3,5
Impact strength	DIN 53453	mJ/mm <sup>2</sup>	6 -8
Resistance to pressure	DIN 53454	MPa	60-70
Tensile strength	DIN 53455	MPa	28 - 35
Elongation	DIN 53455	%	2,8-3,2
Shore D hardness	DIN 53505	-	80 - 83
Determination of temperature of deflection under load	DIN EN ISO 75 B	°C	43
Thermal conductivity	DIN 52613	W/mK <sup>-1</sup>	0,65
Coefficient of linear expansion (0 – 65°C)		m/mK <sup>-1</sup>	ca. 50*10 <sup>-6</sup>
Temperature index	IEC 216 - 2	°C	approx. 130
Water absorption D 96/25	DIN 53495	%	0,20 - 0,25

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Spec. forward resistance $R_D$	DIN VDE 0303 T3	Ohm x cm	$2,9 \times 10^{14}$
Surface resistance $R_{OA}$ , dry	DIN VDE 0303 T3	Ohm	$2,9 \times 10^{13}$
Dielectric- strength $E_D$	DIN VDE 0303 T2	KV/mm	25 - 30
Dielectric loss factor $\tan/\delta$	DIN VDE 0303 T4	25 °C 50 °C	0,075 0,150
Relative permittivity $E_r$	DIN VDE 0303 T4	25 °C 50 °C	4,7 8,1
Comparative figure of the tracking	DIN VDE 0303 T1	CTI 600 M	CTI > 600 M (with wetting agent)
fire resitance	UL-94	test spec.of 4mm thickness	VO

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### **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.