

ebalta EGM-PU-02

ebalta EGM-PU-02 is a low viscosity casting compound on polyurethane resin basis, free off fillers. After curing results an impact resistant moulding material, which is suitable for casting and inlaying of components with different inlaying parts. A coloured pigmentation is possible.

Characteristics:

Properties	test specifications	Dimension	Comp. A	Comp. B
Colour	-	-	acc. to pigmentation	
Viscosity 25 °C	DIN 53018 T1	mPas	700 - 900	50 – 70
Viscosity 40 °C	DIN 53018 T1	mPas	300 - 400	30 – 50
Density 20/4 °C	DIN 51757	g/cm ³	1,0 – 1,04	1,20 - 1,24
Mixing ratio	-	by weight	100	: 55
		by volume	100	: 45
Mixing viscosity at 25 °C	DIN 53018 T1	mPa.s	400	- 600
at 40°C			150	- 250
Pract. processing time „DWZ“ 25 °C	-	Min.	30	- 60*
40 °C			10	- 20
Gelling time at 25 °C	DIN 16945	Min.	90	- 130*
at 40 °C			30	- 50
Hardening or post curing		h/bei °C		7 / 25
		h/bei °C		5 / 80

* The processing respectively gelling time can be adjusted individually.

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Use:

ebalta **EGM-PU-02** is suitable for casting of cable sealings, capacitors, transformers, coils and components, which are exposed to thermic variation in stress. ebalta **EGM-PU-02** 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	18 - 22
Flexion	DIN 53452	mm	15
Impact strength	DIN 53453	mJ/mm ²	16 - 20
Resistance to pressure	DIN 53454	MPa	35 - 40
Tensile strength	DIN 53455	MPa	35 - 45
Elongation	DIN 53455	%	25 - 35
Shore D hardness	DIN 53505	-	65 - 75
Density 20/4 °C	DIN 53479	g/cm ³	1,08 – 1,12
Heat distortion according to Martens	DIN 53462	°C	30 - 35
Temperature index	IEC 216 - 2	°C	TI approx. 115
Water absorption D 96/25	DIN 53495	%	0,30 – 0,35
Water absorption up to saturation - 25 °C/ after d		%	0,40 - 0,45 / 150
Conductivity	DIN 51046 modif.	W/m.k	0,25

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Spec. forward resistance R_D	DIN VDE 0303 T3	Ohm x cm	2×10^{16}
ditto after water-storage D 48/50	DIN VDE 0303 T3	Ohm x cm	1×10^{15}
ditto after water-storage D 750/50	DIN VDE 0303 T3	Ohm x cm	1×10^{14}
Surface resistance R_{OA} , dry	DIN VDE 0303 T3	Ohm	2×10^{14}
ditto after water-resistance D 48/50	DIN VDE 0303 T3	Ohm	9×10^{13}
Dielectric-strength E_D	DIN VDE 0303 T2	KV/mm	25 - 30
Dielectric loss factor $\tan \delta$	DIN VDE 0303 T4	25 °C	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 agent)	DIN VDE 0303 T1	CTI 600 M	CTI > 600 M (with wetting)

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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 recording 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 supersedes all other versions.
Our general terms of business are applicable.

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