

Technical Data Sheet

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 53019-1	mPas	700 - 900	50 – 70
Viscosity 40 °C	DIN 53019-1	mPas	300 - 400	30 – 50
Density 20/4 °C	DIN 51757	g/cm ³	1,0 – 1,04	1,20 - 1,24
Mixing ratio	-	MT	100	: 55
		VT	100	: 45
Mixing viscosity at 25 °C	DIN 53019-1	mPa.s	400	- 600
at 40°C	DIN 53019-1	mPa.s	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.

Technical Data Sheet

ebalta EGM-PU-02

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	EN ISO 178	MPa	18 - 22
Flexion	EN ISO 178	mm	15
Impact strength	EN ISO 179	mJ/mm ²	16 - 20
Resistance to pressure	EN ISO 604	MPa	35 - 40
Tensile strength	EN ISO 527-1	MPa	35 - 45
Elongation	EN ISO 527-1	%	25 - 35
Shore D hardness	EN ISO 7619-1	-	65 - 75
Density 20/4 °C	DIN 51757	g/cm ³	1,08 – 1,12
Heat distortion according to Martens	DIN EN ISO 75 B	°C	30 - 35
Temperature index	IEC 216 - 2	°C	TI approx. 115
Water absorption D 96/25	DIN EN ISO 62	%	0,30 – 0,35
Water absorption up to saturation - 25 °C/ after d	-	%	0,40 - 0,45 / 150
Conductivity	DIN 52613 modif.	W/m.k	0,25

Technical Data Sheet

ebalta EGM-PU-02

Spec. forward resistance R_D	DIN 53842	Ohm x cm	2×10^{16}
ditto after water-storage D 48/50	DIN 53842	Ohm x cm	1×10^{15}
ditto after water-storage D 750/50	DIN 53842	Ohm x cm	1×10^{14}
Surface resistance R_{OA} , dry	DIN 53842	Ohm	2×10^{14}
ditto after water-resistance D 48/50	DIN 53842	Ohm	9×10^{13}
Dielectric-strength E_D	DIN 53483	KV/mm	25 - 30
Dielectric loss factor $\tan \delta$	DIN 53483	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 53483	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)	IEC 112	CTI 600 M	CTI > 600 M (with wetting)



Technical Data Sheet

ebalta EGM-PU-02

Notice:

These data and recommendation have are based on comprehensive trials and long-time practical experiences.. As, however, the consumer's processing is beyond our control and due to versatile application and processing, we cannot guarantee for all individual cases.

Safety measures for of processing:

For processing of these products please follow the safety measures recommended by the trade association of the chemical industry follow safety advices!

This updated sheet annuls all former versions.

Our general terms and conditions apply.