

## ebalta EGM-PU-23

**ebalta EGM-PU-23** is a filled, flame-hindering, casting resin on polyurethane basis with medium viscosity. After curing results very flexible, temperature- and crack proof molding material. The flame hindering is realized through mineral filling material. Halogen compounds are not used.

### Characteristics:

properties	test specifications	dimension	comp. A	comp. B
colour	-	-	acc. to pigmentation	brown
viscosity 25 °C	DIN 53019 T2	mPa.s	3000 - 4000	15 - 25
density 20 / 4 °C	DIN 51757	g/cm <sup>3</sup>	1,40 - 1,42	1,20 - 1,22
mixing ratio	-	MT	100	: 10
mixing viscosity at 25 °C	DIN 53019 T2	mPa.s	2800	- 3800
pract. processing time - „DWZ“ 25 °C		min.		30 - 60
gelling time 25 °C	DIN 16945	min.		50 - 80
hardening or post curing		h/at °C		24 / 25
		h/at °C		5 / 80

### Application:

**ebalta EGM-PU-23** is suitable for casting of electric and electronic components, especially then, when an increased temperature index, thermal fatigue resistance and flame retardant according UL 94 VO is required.

## ebalta EGM-PU-23

### Storage stability:

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

### Characteristics of the formed parts:

tensile strength	DIN 53455	MPa	2,7 - 3,1
elongation	DIN 53455	%	40 - 60
tensile E-modulus	DIN 53547	N/mm <sup>2</sup>	13 - 17
tear strength	DIN 53515	N/mm	1,6 - 2,0
shore A hardness	at room temperature	DIN 53505	approx. 75
	at - 20 °C	DIN 53505	approx. 80
	at - 30 °C	DIN 53505	approx. 85
temperature index	IEC 216 - 2 modified	°C	approx. 115
combustibility	UL 94		VO 4 mm
thermal conductivity	DIN 51046 modified	W/m.K	0,65
special volume resistance R <sub>D</sub>	DIN VDE 0303 T3	Ohm x cm	1,0 - 2,0 x 10 <sup>10</sup>
surface resistance R <sub>OA</sub>	DIN VDE 0303 T3	Ohm	2,0 - 3,0 x 10 <sup>12</sup>
impact toughness E <sub>d</sub>	DIN VDE 0303 T2	KV/mm	20 - 22

## ebalta EGM-PU-23

Dielectric loss factor $\tan \delta$ / Dielectric number (DZ) $E_r$	DIN VDE 0303 T4	
at 50 Hz		0,105 / 7,5
at 1 KHz		0,034 / 7,2
at 1 MHz		0,068 / 5,8
Comparative figure of the tracking (without wetting agent)	DIN VDE 0303 T1 CTI 600 M	CTI > 600M with wetting agent

### 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 supersedes all other versions.

Our general terms of business are applicable.

ebalta UK Limited . B2 Langham Park, Trent Lane . Castle Donington . Derbyshire DE74 2UT  
t: +44 1332 814700 . f: +44 1332 814775 . e: info@ebalta.co.uk . w: www.ebalta.co.uk