Technical Data Sheet

ebalta EGM-PU-21/30

ebalta EGM-PU-21/30 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 pigmenting is possible.

ebalta EGM-PU-21/30 is distinguished by very good electric and mechanical properties also at low and higher temperatures.

ebalta EGM-PU-21-30 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 53019-1	mPas	3500 - 4500	100 - 200
Density 20 °C	DIN 51757	g/cm³	1,50 - 1,55	1,20 - 1,22
Mixing ratio	-	MT	100 :	30
Mixing viscosity at 25 °C	DIN 53019-1	mPa.s	1000 - 1500	
Pract. processing time „DWZ“ 25 °C	-	Min.	30*	
Gelling time 25 °C	DIN 16945	Min.	50 -	60*
Hardening or post curing		h/bei °C h/bei °C	24 / 25 5 / 80	

* The processing respectively gelling time can be adjusted individually.

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Characteristics of the formed parts:

Hardening conditions:	24 h at 25 °C + 5 ° h at 80 °C		
Flexural strength	EN ISO 178	MPa	45 - 55
Flexion	EN ISO 178	mm	15
Impact strength	EN ISO 179	mJ/mm²	15 - 20
Resistance to pressure	EN ISO 604	MPa	60 - 65
Tensile strength	EN ISO 527-1	MPa	25 - 30
Elongation	EN ISO 527-1	%	10 - 15
Shore D hardness	DIN ISO 7619-1	-	70 - 75
Density 20/4 °C	DIN 53479	g/cm³	approx. 1,40
Heat distortion according to Martens	DIN EN SO 75 B	°C	35
Temperature index	IEC 216 - 2	°C	TI approx. 130
Water absorption D 96/25	DIN EN ISO 62	%	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 53842	Ohm x cm	1 x 10^{14}
ditto after water-storage D 48/50	DIN 53842	Ohm x cm	1 x 10^{14}
ditto after water-storage D 750/50	DIN53842	Ohm x cm	1 x 10^{13}
Surface resistance R_{OA}, dry	DIN 53842	Ohm	1 x 10^{13}
ditto after water-resistance D 48/50	DIN 53842	Ohm	1 x 10^{12}
Dielectric-strength E_D	DIN 53481	KV/mm	25 - 30
Dielectric loss factor tan/ δ	DIN 53483	25 °C 40 °C 60 °C 80 °C 110 °C	0,04 0,06 0,12 0,22 0,53
Relative permittivity E_r	DIN 53483	25 °C 40 °C 60 °C 80 °C 110 °C	3,4 3,9 4,0 4,6 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 52613 modif.	W/m.k.	0,65

* (test certificate can be requested).

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Use:

ebalta EGM-PU-21-30 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-21/30** can be sealed
both under standard conditions and also in a vacuum.

Storage stability:

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

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.