MAGNOVAL® 2067

Composition:

MAGNOVAL® 2067 consists of glass cloth, iron powder and a modified epoxy resin.

Properties:

MAGNOVAL® 2067 has good magnetic conductivity combined with high resistivity and high mechanical strength.

Application:

MAGNOVAL® 2067 is used e. g. for slot wedges for induction motors.

Availability:

Thickness: 2 - 10 mm
Dimension: max. 995 ± 50 x 1035 - 0 +20 mm
Slot wedges according drawings.

Storability:

Unlimited under normal conditions (20° C, 50% r. h.).

Processing advices:

For machining of MAGNOVAL® 2067 carbide tipped tools are recommended.

In case of vacuum impregnation we recommend to use POROMAT® 2242 (2248) as bed material for fixing the slot wedges. (see data sheets POROMAT®)

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Technical Data

Magnetic properties (Test method: IPV Nr. 11)	**Unit**	**Value**						
Magnetic induction	Tesla	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Relative permeability [μ(B)] Tolerance: ± 10 %	-	2.8	2.9	2.8	2.7	2.4	2.2	1.9
Magnetic field strength	A/cm	500	1000	1500	2000	2500	3000	
Magnetic induction [B(H)] Tolerance: ± 10 %	Tesla	0.17	0.32	0.46	0.56	0.64	0.69	

Technical Data

MAGNOVAL® 2067			
Properties	**Test method**	**Unit**	**Value**
Nominal thickness		mm	2.0 - 10.0 in 0.5 mm steps
Tolerance	DIN 836	mm	acc. DIN 40606 (HGW 2372.4)
Density	ISO 1183	g/cm³	3.5 ± 0.2
Flexural strength at 23°C / 150°C	ISO 178	MPa	≥ 150 / ≥ 120
Modulus of elasticity at 23°C / 150°C	ISO 178	GPa	approx. 14.5 / approx. 11.5
Resistivity	IEC 167	Ohm x cm	≥ 1 x 10^6
Iron content		%	approx. 75
Glass content		%	approx. 7
Resin content		%	approx. 18
Temperature index	IEC 216	°C	approx. 155

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