

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. In case of vacuum impregnation (VPI) we recommend the use of POROMAT® 2242 (2248) as a bed material for fixing the slot wedges.

Availability

Thickness : 1 - 10 mm **Thickness Tolerance**: DIN 836 mm acc. DIN 40606 (HGW 2372.4)

Sheet Size : 1020 +20/-0 mm x 950 +50/-0 mm

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

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

Technical Data

Magnetic Properties (Test method: IPV Nr. 11)	Unit	Value						
		0.1	0.2	0.3	0.4	0.5	0.6	0.7
Magnetic Induction	Tesla	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Relative Permeability [$\mu(B)$] Tolerance: $\pm 10\%$	-	2.8	2.9	2.9	2.8	2.6	2.5	2.4
Magnetic Field Strength	A/cm	500	1000	1500	2000	2500		
Magnetic Induction [B(H)] Tolerance: $\pm 10\%$	Tesla	0.18	0.35	0.5	0.63	0.73		

Properties	Test Method	Unit	Value
Density	ISO 1183	g/cm ³	3.5 \pm 0.2
Flexural Strength at 23°C / 150°C	ISO 178	mPa	$\geq 150 / \geq 120$
Modulus of Elasticity at 23°C / 150°C	ISO 178	Pa	$\sim 14.5 / \sim 11.5$
Resistivity	IEC 167	Ohm x cm	$\geq 1 \times 10^6$
Iron Content		%	approx. 75
Glass Content		%	approx. 7
Resin Content		%	approx. 18
Temperature Index	IEC 216	°C	approx. 155

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