

Laminates

VETROFERRIT H

- ▶ High Pressure Laminate with good magnetic permeability
- ▶ High mechanical strength
- ▶ Suitable for class H systems

General description

Vetroferrit H is laminate based on epoxy resin and glass fabric with iron powder (approx. 70%) as additive.

Colour

greyblack

Application

Magnetic slot wedges

Form of delivery

Sheet sizes 1170 x 1070 mm, for bigger demand also 2070 x 1070 mm

Tolerance of formats 0 / - 30 mm

Thickness in range of 2 to 7 mm

Thickness tolerance - 0 / + 0,8 mm

Ground tolerance - 0 / + 0,2 mm

Material also available as cut to size panels and machined slot wedges acc. to drawing.

Processing

Machining with carbide or diamond tools.

* = In typical use as slot wedge

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		Value	Test norm
Mechanical properties			
Flexural strength	MPa	190	ISO 178
Flexural strength at 150°C / 1h	MPa	160	ISO 178
Modulus of elasticity in flexure at 23°C, flatwise	MPa	16000	ISO 178
Modulus of elasticity in flexure at 150°C, flatwise	MPa	11000	ISO 178
Electrical properties			
Rel. permeability at induction 0,3 Tesla		3.85	
Rel. permeability at induction 0,5 Tesla		3.50	
Rel. permeability at induction 0,7 Tesla		2.80	
Magnetic induction at field intensity of 1000 A/cm	Tesla	0.55	
Magnetic induction at field intensity of 2000 A/cm	Tesla	0.90	
Magnetic induction at field intensity of 3000 A/cm	Tesla	1.20	
Volume resistivity	Ω mm²/m	>1.0E+6	IEC 60093
Thermal properties			
Temperature index (TI)	°C	180*	IEC 60216
Coefficient of thermal expansion	1.0E-6 / K	22/24/54 (x/y/z)	DIN 53752
Thermal conductivity	W/m.K	1.0	DIN 52612
Physical properties			
Density	g/cm³	3.5 + - 0.2	ISO 1183
Glass transition temperature	°C	>170	IEC 1006