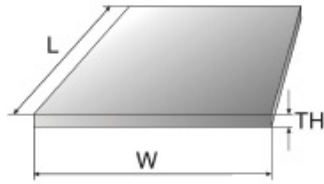


WEIDMANN

Insulation Board SMPT



E1500A.P

Product description

Insulation Board SMPT is a precompressed (hot press dried) sheet material with low density for the insulation of small and medium power transformers.

Product properties

Apparent density:	1.00 g/cm ³	Raw material:	Unbleached kraft pulp
Moisture content:	≤ 6 %	Thermal class:	105 °C (IEC 60085)
Surface:	Wire marks, uncalendered		

Product information

Production steps: Stock preparation, sheet forming, wet multiplying, drying by hot pressing and cutting.
Products produced from Insulation Board SMPT: Insulation components for distribution transformers, small and medium power transformers.

Special characteristics: Reduced density in comparison with T IV. Mechanical and electrical properties optimized to suit the requirements of applications for small and medium voltages.

Thicknesses: 1.0, 1.5, 2.0 and 3.0 mm

Size: 2090 mm x 1030 mm

Minimal order quantity: 1 skid with about 1100 kg (complete skids are available only)

Packaging: Sheets are packed on standard skids with 500 mm stack height.

Approximate number of sheets per skid of Insulation Board SMPT:

Thickness	1.0 mm	500 sheets
	1.5 mm	330 sheets
	2.0 mm	250 sheets
	3.0 mm	160 sheets

Product parameter

	Description	Unit	Range of value	Constraint	Tolerances		Comment
					Min	Max	
GRE	External grade			500A			
TH	Thickness	mm	1.0 and 1.5 2.0 and 3.0		-7.5 % -5.0 %	+7.5 % +5.0 %	
L	Length	mm	2090		-20 mm	+20 mm	
W	Width	mm	1030		-20 mm	+20 mm	

The specified tolerances are valid for measurements taken at WEIDMANN or after conveyance and warehousing under conditions appropriate for the material. Customers are advised to add appropriate additional tolerances in case of extreme environmental conditions at the place of warehousing or processing of the material.

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Additional Information

Property	Unit	Range Thicknesses (mm)	Value
Apparent density	g/cm ³	1.0 – 3.0 mm	1.00
Tensile strength, machine direction	MPa	1.0 – 3.0 mm	90
Tensile strength, cross machine direction	MPa	1.0 – 3.0 mm	70
Elongation, machine direction	%	1.0 – 3.0 mm	3.4
Elongation, cross machine direction	%	1.0 – 3.0 mm	3.8
Compressibility C	%	1.0 and 1.5 mm	8.8
		2.0 and 3.0 mm	6.1
Compressibility Crev	%	1.0 and 1.5 mm	55
		2.0 and 3.0 mm	65
Ply bond resistance	N/30mm	1.0 – 3.0 mm	370
Ash content	%	1.0 – 3.0 mm	0.28
Shrinkage, thickness	%	1.0 and 1.5 mm	5.0
		2.0 and 3.0 mm	4.4
Shrinkage, machine direction	%	1.0 – 3.0 mm	0.4
Shrinkage, cross machine direction	%	1.0 – 3.0 mm	0.5
Conductivity of aqueous extract	mS/m	1.0 – 3.0 mm	1.6
pH of aqueous extract		1.0 – 3.0 mm	7.0
Oil absorption	%	1.0 – 3.0 mm	26
Electrical strength in oil	kV/mm	1.0 – 3.0 mm	32

The technical data reflect typical results of routine tests performed in WEIDMANN laboratories according to IEC standard testing procedures.

Ordering code

E1500A.P /GRE/TH/L/W

Product variants

	TH (mm)	L (mm)	W (mm)
E1500A.00100.YYY	1.0	2090	1030
E1500A.00150.YYY	1.5	2090	1030
E1500A.00200.YYY	2.0	2090	1030
E1500A.00300.YYY	3.0	2090	1030

Disclaimer

Subject to change without prior notice.