

COORDINACIÓN DE PRODUCCIÓN	Elaborado por: CSGC
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1. PRODUCT DESCRIPTION

A low density calendared board used for both flat and formed parts in liquid-filled Transformers and capacitors. It is available in thickness from 0.031 in (0.8 mm) up to and including 0.188 in (4.8mm). Typical applications include coil forms in small Transformers, phase barriers, yoke and tank shields, and collars and washers for core and Shell form Transformers.

2. PRODUCT INFORMATION

Transformers Hi-Val offers high mechanical strength, excellent aging characteristics, low shrinkage and Good vending properties in both the machine and cross machine direction.

Master size: 3810mm x 6604mm

Special tolerance may be available upon request but are subject to manufacturing capabilities. Minimum order quantities may be required.

The minimum order quantity is valid for the master sizes. For other sizes the quantity is calculated according to cutting patterns.

For additional properties, please see additional information in the table below.

For standard sizes please refer to the "cutting patterns" link at the bottom of the page.

Minimal order quantity: 1 PC

Alternative ordering unit: kg

3. PRODUCT PARAMETER

	Description	Unit	Range value	Constraint	Tolerances		Comment
					min	max	
TH	Thickness	mm	$0.787 \leq TH \leq 1.27$ $1.27 < TH \leq 2.285$ $2,285 < TH \leq 4.775$		-10%	+10%	
					-8%	+8%	
					-6%	+6%	
L	Length	mm	$1574.8 \leq L \leq 2082.799$ $2082.799 < L \leq 3302$ $3302 < L \leq 6604$		-2%		
					-63.5mm		
W	Width	mm	$1244.6 \leq W \leq 1828.8$ $1828.8 < W \leq 3810$		-101.6mm	+101.6mm	

ADDITIONAL INFORMATION

Property	Unit	Range of thickness (mm)	Typical value
Density	g/cm ³	0.8 – 1.3	1.03
		1.3 – 2.3	1.05
		> 2.3	0.94
Moisture	%	≤ 4.8	4.9 (8 max)
Shrinkage, machine direction	%	≤ 4.8	0.3 (0.7 max)
Shrinkage, cross machine direction	%	≤ 4.8	0.6 (1.0 max)
Shrinkage, thickness	%	≤ 4.8	2.8
Oil absorption	%	≤ 4.8	> 24

Property	Unit	Range of thickness (mm)	Typical value
Compressibility	%	≤4.8	15
Compression set	%	≤4.8	4.8
MD tensile	PSI	≤4.8	12.000 (8.000 min)
CMD tensile	PSI	≤4.8	7.000 (5.500 min)
Tensile elongation, machine direction	%	≤4.8	10
Tensile elongation, cross machine direction	%	≤4.8	13
Dielectric constant	-	≤4.8	3.9
Dissipation factor	%	≤4.8	0.4 at 25 °C
			2.0 at 130 °C
60 breakdown	Kv/mm	≤4.8	20
Impulse withstand	Kv/mm	≤4.8	80
Ash content	%	≤4.8	0.75 maximum
Conductivity	Micromhos/cm	≤4.8	20 maximum
PH		≤4.8	6.8 – 8.5 typical value range
Chlorides	ppm	≤4.8	8 maximum

Please contact us for values outside the specified ranges. The specified tolerances are valid for measurements taken at Weidmann or 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 warehousing or processing of the material.

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