

Product Specification

maiCompact

SECTION 1:

Product and Company Identification

MANUFACTURER:

Maica Laminates Sdn Bhd
5100, Lorong Mak Mandin 5
Mak Mandin Industrial Estate
13400 Butterworth, Penang, Malaysia.

MANUFACTURER'S EMERGENCY CONTACT:

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PRODUCT DESCRIPTION:

Maica Laminates Sdn Bhd declares that **maiCompact (Maica Compact Laminate)** conforms with the specifications of the EN438-4:2005.

maiCompact is a panel with thickness of 2.0 mm and greater.

SECTION 2:

Inspection requirements

SPECIFICATIONS: GENERAL INSPECTION REQUIREMENTS:

Viewing distance	Approximately 150 cm.
Light conditions	Intensity 800 – 1000 lux over the whole area.
Light type	Overhead white fluorescent lights, of colour temperature approximately 5000 K.

SPECIFICATIONS: INSPECTION REQUIREMENTS OF COLOUR, PATTERN AND SURFACE FINISH:

Colour and Pattern	When inspected in daylight or D65 standard illuminant, and under tungsten illuminant, there shall be no significant difference between the corresponding colour or pattern reference sample held by the supplier and the specimen under test.
Surface Finish	When inspected at different viewing angles, there shall be no significant difference between corresponding surface-finish reference sample held by the supplier and the specimen under test.

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SECTION 2:

Inspection requirements (continued)

SPECIFICATIONS: VISUAL INSPECTION

Dirt, spots and similar surface defects	Max. 1 mm ² /m ² and is proportional to the sheet size. Total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects.
Fibres, hairs and scratches	Max. 10 mm/m ² and proportional to the sheet size. Total admissible length of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects.
Edge quality: chipping	Max. 3 mm / side

SPECIFICATIONS: DIMENSIONAL TOLERANCES:

Property	Test method (EN 438-2: 2005, clause no.)	Unit	Values
Thickness	5	mm (max.)	2.0 mm ≤ t < 3.0 mm : ± 0.20 mm
			3.0 mm ≤ t < 5.0 mm : ± 0.30 mm
			5.0 mm ≤ t < 8.0 mm : ± 0.40 mm
			8.0 mm ≤ t < 12.0 mm : ± 0.50 mm
			12.0 mm ≤ t < 16.0 mm : ± 0.60 mm
			16.0 mm ≤ t < 20.0 mm : ± 0.70 mm
			20.0 mm ≤ t < 25.0 mm : ± 0.80 mm
			25.0 mm ≤ t : to be agreed between supplier and customer. (t = nominal thickness)
Flatness ^{a)}	9	mm/m (max.)	2.0 mm ≤ t < 6.0 mm : 8.0 mm/m
			6.0 mm ≤ t < 10.0 mm : 5.0 mm/m
			10.0 mm ≤ t : 3.0 mm/m (t = nominal thickness)
Length and Width ^{b)}	6	mm	- 0 / + 10.0 mm
Straightness of edges ^{b)}	7	mm/m (max.)	1.5 mm/m
Squareness ^{b)}	8	mm/m (max.)	1.5 mm/m

a) Provided the laminates are stored in the manner and conditions recommended by the manufacturer, they shall comply with the flatness requirements specified in the above table when measured in accordance with EN 438-2, Clause 9. The flatness values specified in the above table apply to laminates with two decorative surfaces. Tolerances for laminates with single decorative surface shall be agreed between supplier and customer.

b) Tolerances for cut-to-size panels shall be agreed between supplier and customer.

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SECTION 3:

Alphabetical Classification System

First letter	C (Compact Grade)
Second letter	G (General purpose)
Third letter	S (Standard Grade)

SECTION 4:

maiCompact General Requirement

Property	Test method (EN 438-2: 2005, clause no.)	Property or attribute	Unit (min. or max.)	Values CGS
Resistance to Surface Wear	10	Wear Resistance	Revolutions (min.)	
			Initial point	150
			Wear value	350
Resistance to Impact by Large Diameter Ball	21	Drop Height ^{a)}	mm (min.)	
			2.0 mm ≤ t < 6.0 mm	1400
			6.0 mm ≤ t	1800
			(t = nominal thickness)	
Resistance to Scratching	25	Force	Rating (min.)	
			Smooth finishes	2
			Textured finishes	3
Resistance to Dry Heat (180°C)	16	Appearance	Rating (min.)	
			Gloss finish	3
			Other finishes	4
Resistance to Wet Heat (100°C)	EN12721	Appearance	Rating (min.)	
			Gloss finish	3
			Other finishes	4
Resistance to Immersion in Boiling Water	12	Mass increase	% (max.)	
			2.0 mm ≤ t < 5.0 mm	5.0
			t ≥ 5.0 mm	2.0
		Thickness Increase	% (max.)	
			2.0 mm ≤ t < 5.0 mm	6.0
			t ≥ 5.0 mm	2.0
			(t = nominal thickness)	
		Appearance	Rating (min.)	
			Gloss finish	3
			Other finishes	4
Dimensional Stability at Elevated Temperature	17	Cumulative Dimensional Change	% (max)	
			2.0 mm ≤ t < 5.0 mm L ^{b)}	0.40
			2.0 mm ≤ t < 5.0 mm T ^{c)}	0.80
			t ≥ 5.0 mm L	0.30
			t ≥ 5.0 mm T	0.60
			(t = nominal thickness)	
Resistance to Staining	26	Appearance	Rating (min.)	
			Groups 1 & 2	5
			Group 3	4
Lightfastness (Xenon Arc)	27	Contrast	Grey scale rating	4 to 5
Resistance to Water Vapour	14	Appearance	Rating (min.)	
			Gloss finish	3
			Other finishes	4

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SECTION 4: maiCompact General Requirement (continued)

Property	Test method (EN 438-2: 2005, clause no.)	Property or attribute	Unit (min. or max.)	Values CGS
Resistance to Cigarette Burns	30	Appearance	Rating (min.)	3
Resistance to Crazing	24	Appearance	Grade (min.)	4
Flexural Modulus	EN ISO 178 ^{d)}	Stress	Mpa (min.)	9000
Flexural Strength	EN ISO 178 ^{d)}	Stress	Mpa (min.)	80
Tensile Strength	EN ISO 527 ^{e)}	Stress	Mpa (min.)	60
Density	EN ISO 1183	Density	kg/m ³ (min.)	1350

- a) When tested at the specified drop height, the diameter of indentation shall not exceed 10 mm.
- b) L = in the longitudinal (or machine) direction of the fibrous sheet material (normally the direction of the longest dimension of the laminate).
- c) T = in the cross-longitudinal (cross-machine) direction of the fibrous sheet material (at right angles to direction L).
- d) Machine crosshead speed : 2 mm/min.
- e) Specimen type 1A : Machine crosshead speed 5 mm/min.

Maica Laminates Sdn Bhd declares that the mentioned product will meet the above specifications when determined according to the given standards.