

# MLB (magnetic laminate board)

Characteristic	Method	Unit of Measure	MLB
Nominal Thickness		mm	1.0
Surface Defects	EN438:2016-2-4 Dirt/Spots Fibres/Hairs/Scratches	mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	≤ 1 ≤ 10
Thickness	EN438:2016-2-5	mm	± 0.18
Length & Width	EN438:2016-2-6	mm	-0 / +10
Squareness	EN438:2016-2-7	mm/m	≤ 1.5
Edge Straightness	EN438:2016-2-8	mm/m	≤ 1.5
Flatness	EN438:2016-2-9	mm/m	≤ 100
Surface Wear Resistance	EN438:2016-2-10	revolutions	≥ 150
Immersion in Boiling Water	EN438:2016-2-12	Class	/
	Gloss		/
	Other		/
	Mass Increase (2mm ≤ thickness < 5mm)	%	/
	Mass Increase (thickness ≥ 5mm)	%	/
	Thickness Increase (2mm ≤ thickness < 5mm)	%	/
	Thickness Increase (thickness ≥ 5mm)	%	/
	Edge rating		/
Resistance to Water Vapour	EN438:2016-2-14	Class	/
	Gloss		/
	Other		/
Resistance to Wet Conditions	EN438:2016-2-15	Class	/
	Appearance		/
	Mass Increase (2mm ≤ thickness < 5mm)		/
	Mass Increase (thickness ≥ 5mm)		/
Resistance to Dry Heat (160°C)	EN438:2016-2-16	Class	/
	Gloss		/
	Other		/
Resistance to Wet Heat (100°C)		Class	/
	Gloss		/
	Other		/
Dimensional Stability	EN438:2016-2-17	%	≤ 0.75
	Longitudinal (2mm ≤ thickness < 5mm)		/
	(Thickness ≥ 5mm)		/
	Transverse (2mm ≤ thickness < 5mm)		≤ 1.25
	(Thickness ≥ 5mm)		/
			/
Resistance to Climatic Shock	EN438:2016-2-19	Class	/
	Appearance	Ds	/
	Flexural Strength Index	Dm	/
	Flexural Modulus Index		/
Impact Resistance (Small Ball)	EN438:2016-2-20	N	≥ 15
Impact Resistance (Large Ball)	EN438:2016-2-21	mm	/
	Height of Fall (2mm ≤ thickness < 6mm)	mm	/
	Height of Fall (thickness ≥ 5mm)		/
Resistance to Cracking	EN438:2016-2-23	Class	/
Resistance to Crazeing	EN438:2016-2-24	Class	/
Scratch Resistance	EN438:2016-2-25	Class	2
Stain Resistance	EN438:2016-2-26	Class	5
	Group 1 & 2		4
	Group 3		
Light Fastness	EN438:2016-2-27	Grey Scale	4 to 5
Resistance to UV	EN438:2016-2-28	Grey Scale	/
	Contrast (1500hr)	Class	/
	Appearance (1500hr)		/
Resistance to Artificial Weathering	EN438:2016-2-29	Class	/
	Contrast (335 MJ/m <sup>2</sup> )		/
	Contrast (650 MJ/m <sup>2</sup> )		/
	Appearance (325 MJ/m <sup>2</sup> )		/
	Appearance (650 MJ/m <sup>2</sup> )		/
Postforming Radius	EN438:2016-2-31	Minimum Radius mm	/
Resistance to Blistering	EN438:2016-2-33	Seconds	/
Density		g/cm <sup>3</sup>	≥ 2.7
Fire Rating			

EN438 Class Definitions - Class 5 No visible change  
Class 2 Marked loss of gloss and or colour

Class 4 Slight loss of gloss and or colour  
Class 1 Blisters and or delamination

Class 3 Moderate loss of gloss and or colour