

INTRODUCTION

- The Particle Board also known as Chipboard, is an engineered wood product manufactured from rubber wood chips and a synthetic resin or binder, which is forming panels by applying pressed and extruded.
- The Melamine Faced Particle Board is manufactured by high pressure and high heat bonding impregnated paper to Plain Particle Board, and provide a highly Scratch, Heat, Abrasion, Steam, and Chemical or Stain Resistant product surface finishing.

PRODUCT INFORMATION

PRODUCT	PARTICLE BOARD	PARTICLE BOARD
Grade	UF Non-Moisture Resistant	V313 Moisture Resistant
Thickness	9mm, 12mm, 15mm, 16mm, 18mm, 25mm & 30mm	16mm & 18mm
Size	4' x 8' (1220mm x 2440mm) *	
	4' x 9' (1220mm x 2745mm) *	
	6' x 8' (1830mm x 2440mm)	
	6' x 9' (1830mm x 2745mm) *	
Colour / Design	Solid and Woodgrain Design **	
Surface Finishing	Texture / Woodgrain / Matt / Pearl / Stipple / Ashgrain / Finoline / Fabric / Timber Saw Cut / Saw Cut / SR	

* The board size only available on specified Colour and Design.

** Please refer to Melamine Collection for individual Colour and Woodgrain Design.

BOARD PROPERTY

PROPERTY	METHOD	UNIT	9~12mm	15~18mm		25mm		30mm	
			P2	P2	P5	P2	P5	P2	P5
Density	EN323	kg/m ³	720 ~ 690	710 ~ 660		650 ~ 630		630 ~ 610	
Thickness	EN324-1	mm	+ 0.5 ~ - 0.3	+ 0.5 ~ - 0.3		+ 0.5 ~ - 0.3		+ 0.5 ~ - 0.3	
Length & Width	EN324-1	mm	+/- 5.0	+/- 5.0		+/- 5.0		+/- 5.0	
Edge Straightness	EN324-2	mm/m	1.5	1.5		1.5		1.5	
Squareness	EN324-2	mm/m	2	2		2		2	
Moisture Content	E322	%	5 ~ 13	5 ~ 13	5 ~ 13	5 ~ 13	5 ~ 13	5 ~ 13	5 ~ 13
Bending Strength	EN310	N/mm ²	13	13	16	11.5	14	11	12
Internal Bond	EN319	N/mm ²	0.4	0.35	0.45	0.3	0.4	0.25	0.35
Modulus of Elasticity in Bending	EN310	N/mm ²	1800	1600	2400	1500	2150	1350	1900
Surface Soundness	EN311	N/mm ²	0.8	0.8	N/A	0.8	N/A	0.8	N/A
Thickness Swelling **	EN317	%	N/A	N/A	10	N/A	10	N/A	10

**24-hour immersion in 20 °C (+/- 1 °C) water.

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FORMALDEHYDE EMISSION

TYPE	METHOD	CLASSIFICATION
- Class E2	EN120	8 mg / 100 g
		30 mg / 100 g
- Class E1	EN120	8 mg / 100 g
- Class E0	MFN-1549	0.5 mg / 100 g
- Class Super E0	MFN-1549	0.3 mg / L

MELAMINE SURFACE PROPERTY

TEXT	TEXT METHOD	REQUIREMENT
Scratch Resistant	Applying successively load to diamond scratching point of defined geometry and examine the marks produced.	Minimum load 2.5N.
Heat Resistant	1. Lighted cigarette placed on surface of test sample.	Stain easily removed by wet cloth.
	2. Sample placed in oven and baked at 70°C for 24 hours.	No Hairline cracks observed using a 6X magnifying glass.
	3. Aluminium container containing oil superheated to 180°C placed on sample for 20 minutes.	No marks or any changes observed.
Abrasion Resistant	Taber abraser applied at 500 gram on to sample surface.	Insignificant abrasion of surface sample.
Steam Resistant	Test sample placed on top of a beaker or boiling water for an hour.	No fault observed.
Chemical or Stain Resistant	Surface of test sample exposed to various chemicals and stains: Alkal Alcohol, Petroleum Product, Coffee, Animal Oil, Vegetable Oil / Sauce, Soup / Detergent, Tea, Vineger, Sugar, Ink, Lip-stick, Nail-Polish, Milk, Ammonium Chloride, Shoe-Polish.	No fault or stains observed on sample in all cases.

The above information and recommendation are meant guidelines solely offered for your consideration and verification.

Usage of the product may differ for each application and customers are strongly advised to carry out their own trials of suitability to meet their requirements.

We guarantee the product is produced to a uniform quality standard and under strict production control. However, since we do not have control over its use, we cannot be held responsible or liable for any damage resulting from wrongful usage of the product.

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