

**INTRODUCTION**

- The Medium Density Fibreboard Flame Retardant Class 1 (MDF FR 1) is specially made for critical applications where Class 1 flame retardant material is required, and has a significantly delayed combustion and does not contribute to flame spread. That's ideal for interior and non-structural use especially in public areas such as schools, hotels, hospitals, airports, theaters, etc.
- The Melamine Faced Medium Density Fibreboard (MDF) 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	MEDIUM DENSITY FIBREBOARD
Grade	Flame Retardant Class 1
Thickness	9mm, 12mm, 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	THICKNESS (mm)			
			9mm	12mm	16mm	18mm
Density	EN323	kg/m <sup>3</sup>	800 ~ 760	790 ~ 770	770 ~ 750	770 ~ 750
Moisture Content	EN322	%	4 ~ 9	4 ~ 9	4 ~ 9	4 ~ 9
Modulus of Rupture	EN310	N/mm <sup>2</sup>	32	30	28	28
Internal Bond	EN319	N/mm <sup>2</sup>	0.7	0.7	0.65	0.65
Screw Holding - Face *	EN320	N	-	-	1050	1050
Screw Holding - Edge *	EN320	N	-	-	850	850
Thickness Swelling **	EN317	%	17	15	12	12
Thickness	EN324-1	mm	+/- 0.2 mm			
Length & Width	EN324-1	mm/m	+/- 2~5 mm/m			
Squareness	EN324-2	mm/m	2 mm/m			
Edge Straightness	EN324-2	mm/m	1.5 mm/m			
Latex Spots	-	spot	≤ 5 spots			
Size of Latex Spots	-	mm	≤ 6 mm			
Minor Stains / Fibre Marks / Scratch Lines	-	-	Free on 1 side			

\* Screw holding only for thickness 15mm and above.

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

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## FORMALDEHYDE EMISSION

TYPE	METHOD	CLASSIFICATION
Class CARB Phase 2	ASTM D 6007	≤ 0.1 ppm
Class E1	EN120	≤ 8.0 mg / 100 g
Class E2	EN120	≤ 30.0 mg / 100 g

## FLAME SPREAD CLASSIFICATION BS 476-7

CLASSIFICATION	SPREAD OF FLAME at 1.5 min, Limit (mm)	FINAL SPREAD OF FLAME 10 min, Limit (mm)
Class 1 (No Flame Spread)	165	165
Class 2 (Slight Flame Spread)	215	455
Class 3 (Average Flame Spread)	265	710
Class 4 (High Flame Spread)	Exceeding the limits for Class 3	

## 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.

## TESTING

- Testing Laboratory : Warringtonfiregent
- Testing Standard : BS 476-7
- Test Report : 16384E (V<sub>m</sub> 1'30" = V<sub>m</sub> 10' = 60mm; V<sub>i</sub> 1'30" = V<sub>i</sub> 10' = 50mm)  
16384F (V<sub>m</sub> 1'30" = V<sub>m</sub> 10' = V<sub>i</sub> 1'30" = V<sub>i</sub> 10' = 50mm)
- Classification : Class 1

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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