

Medium Density Fiberboard (MDF)

Physical & Mechanical Properties

No.	Properties	Unit	Specifications for MDF as per IS-14587	Grayman MDF (INT E2)	
01	Length	mm / meter	±3	±2	
02	Width	mm / meter	±3	±2	
03	Thickness	mm	±0.30	±0.15	
04	Edge Straightness	mm / meter	2	0.3	
05	Squareness	mm / meter	2	0.4	
06	Density	kg/m ³	600-900	650-750*	
07	Density Variation (Max)	%	±10	8	
08	Water Absorption (Max)	2 hours	%	9	8
		24 hours	%	18	15
09	Thickness Swelling (Max)	%	7	6	
10	Modulus of Rupture (Min)	Upto 20 mm	N / mm ²	25	27
		Above 20 mm	N / mm ²	22	23
11	Modulus of Elasticity (Min)	Upto 20 mm	N / mm ²	2500	2750
		Above 20 mm	N / mm ²	2300	2400
12	Tensile Strength (Min)	Upto 20 mm	N / mm ²	0.70	0.75
		Above 20mm	N / mm ²	0.60	0.63
13	Screw Withdrawal (Min)	Face	N	1500	1650
		(for thickness > 12 mm) Edge	N	1250	1300
14	Abrasion Resistance (Min)	Revolutions	450	470	
15	Resistance to Steam	Shall not show any sign of blister, delamination or change in surface finish		Conforms	
16	Resistance to Crack	Shall not show any sign of cracks or delamination		Conforms	
17	Resistance to Cigarette Burn	Shall not leave any mark or stain		Conforms	
18	Resistance to Stain	Shall not leave any mark or stain		Conforms	
19	Appearance	No ABC defects		Defect-free	

Note : Pre-Laminated MDF conforms to IS 14587 : 1998 Grade II, Type II

* Density changes as per change in thickness of the board

Availability

Size	8' x 4' (2440 mm x 1220 mm)								
Thickness	5.5 mm	7 mm	9.75 mm	11 mm	14.5 mm	16.5 mm	17 mm	18 mm	25 mm
Finishes	Suede	Neo-Suede	Matte	Glossy	3D Textures				

Grayman MDF can also be supplied in CARB-Ph2 compliant, E1 grade and HMR grade

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