

Physical & Mechanical Properties

No.	Properties	Unit	Specifications for Particle Board as per IS-12823	Grayman Particle Board (INT E2)	
01	Length	mm	±5	±2	
02	Width	mm	±5	±2	
03	Thickness	%	±5	±1.5	
04	Edge Straightness	mm / meter	2	0.6	
05	Squareness	mm / meter	2	0.8	
06	Density	kg/m ³	500 - 900	650-700*	
07	Density Variation (Max)	%	±10	8	
08	Moisture Content	%	5 - 15	7.5	
09	Water Absorption (Max)	2 hours	%	15	13
		24 hours	%	30	28
10	Thickness Swelling (Max)	%	12	11	
11	Modulus of Rupture (Min)	N / mm ²	11	13	
12	Modulus of Elasticity (Min)	N / mm ²	2200	2300	
13	Tensile Strength (Min)	N / mm ²	0.3	0.32	
14	Screw Withdrawal (Min)	Face	N	1250	1300
		Edge	N	750	850
15	Abrasion Resistance (Min)	Revolutions	450	470	
16	Resistance to Steam	Shall not show any sign of blister, delamination or change in surface finish		Conforms	
17	Resistance to Crack	Shall not show any sign of cracks or delamination		Conforms	
18	Resistance to Cigarette Burn	Shall not leave any mark or stain		Conforms	
19	Resistance to Stain	Shall not leave any mark or stain		Conforms	
20	Appearance	No ABC defects		Defect-free	

Note : Pre-Laminated Particle Board conforms to IS 12823 : 2015 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	9 mm	12 mm	17 mm	18 mm	25 mm
Finishes	Suede	Neo-Suede	Matte	Glossy	3D Textures

Grayman Particle Boards can also be supplied in E1 grade and HMR grade

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