

Table 1: PHYSICAL AND MECHANICAL PROPERTY REQUIREMENTS FOR MDF WHEN DETERMINED IN ACCORDANCE WITH ASTM D1037-12(2020) PART A											ANSI A208.2-2022 MDF for Interior Applications	
Grades	Physical and Mechanical Properties											
											Maximum Thickness Swell (TS)	
											Panel Thickness	
	Modulus of Rupture (MOR)		Modulus of Elasticity (MOE)		Internal Bond (IB)		Screw Holding Face		Screw Holding Edge		≤15mm	>15mm
	N/mm <sup>2</sup>	(psi)	N/mm <sup>2</sup>	(psi)	N/mm <sup>2</sup>	(psi)	N	(pounds)	N	(pounds)	mm (inch)	percent
115	12.4	1800	1241	180000	0.47	68	703	158	601	135	1.65 (0.065)	11%
130	21.6	3130	2160	313000	0.54	78	988	222	787	177	1.65 (0.065)	11%
155	27.9	4050	2792	405000	0.81	117	1201	270	1001	225	1.65 (0.065)	11%

TOLERANCE LIMITS FOR DIMENSIONS AND FORMALDEHYDE EMISSIONS	
Properties	115,130,155, and 170
Panel Length or Width > 0.61 m (2 feet)	+ 2.0 mm (+ 0.080 inch)
Panel Average from Specified Thickness	+ 0.125 mm (+ 0.005 inch)
Variance from Panel Average Thickness	+ 0.125 mm (+ 0.005 inch)
Linear Expansion (LE)	< .33 percent
Formaldehyde Emissions	< 0.11 ppm (> 8mm thick) < 0.13 ppm (< 8mm thick)

Table 2: PHYSICAL AND MECHANICAL PROPERTY REQUIREMENTS FOR MDF WHEN DETERMINED IN ACCORDANCE WITH ASTM D1037-12(2020) Part B (< 9.5 mm Thick)						
Grades	Physical and Mechanical Properties					
	Modulus of Rupture (MOR)		Internal Bond (IB)		Maximum Thickness Swell (TS)	
	N/mm <sup>2</sup>	(psi)	N/mm <sup>2</sup>	(psi)	mm	(inch)
210	18.9	2741	0.32	46	2.2	(0.087)
220	28.9	4192	0.54	78	2.2	(0.087)
230	28.9	4192	0.90	131	2.2	(0.087)