

**PHYSICAL AND MECHANICAL PROPERTIES OF MEDIUM DENSITY FIBERBOARD  
MDF-E1, MDF-E0, CARB P2 AND US-EPA**

Properties	Test Method	Unit	Thickness range (mm.)										
			1.0 -1.2	1.3 - 1.7	1.8 - 2.4	2.5 - 3.6	4.0 - 5.5	6.0 - 8.0	9.0 - 12.0	13.0 - 15.0	16.0 - 18.0	19.0 - 25.0	
Density	EN 323	kg/m <sup>3</sup>	900 - 980	840 - 920	820 - 860	800 - 820	740 - 780	740 - 750	730 - 740	710 - 730	700 - 710	670 - 700	
Thickness swelling	EN 317	% (max)	45.0			35.0	32.0	20.0	18.0	16.0	14.0	12.0	
Bending strength (MOR)	EN 310	N/mm <sup>2</sup> (min)	-	29.0	35.0	30.0	30.0	29.0	28.0	26.0	24.0	22.0	
Bending Young's Modulus(MOE)	EN 310	N/mm <sup>2</sup> (min)	2,700	3,000	3,500	2,800	2,800	2,700	2,600	2,400	2,200	2,000	
Internal bond	EN 319	N/mm <sup>2</sup> (min)	1.2			1.0	0.75	0.7	0.65	0.6	0.55	0.55	
Thickness tolerance	EN 324-1	mm. (max)	SANDED ± 0.10 : UNSANDED ± 0.15			± 0.10		± 0.15			± 0.20		
Moisture content	EN 322	%	5.0 -10.0										
Formaldehyde content	EN 120	mg/100g	≤ 8.0										
	ASTM D6007	ppm.	Thin MDF : ≤ 0.13 ppm.					MDF : ≤ 0.11 ppm.					