

MFC HMR RIGHT FIT FOR THE RIGHT APPLICATION



Excellent load-bearing capacity with high moisture resistance, excellent dimensional stability and stiffness. This high-density chipboard comes with a high mechanical properties too and performs well in humid environment with minimal expected expansion and swelling.

Properties	Unit	Std as per IS 3087 :2005	MFC HMR	Interior Grade MDF	High Density High Moisture MDF	Ordinary Plywood
Physical and Dimensional Properties						
Density	Kg/m³	500-900	741	732	863	724
Moisture	%	5-15	6.89	5.93	6.95	6.30
Mechanical Properties						
Water Absorption (max)						
i)2 hrs.	%	10	5.68	3.18	2.66	2.95
ii)24 hrs.		20	15.95	16.31	11.20	10.90
Thickness Swelling (2hrs) Soaking (max)	%	8	5.35	1.20	2.21	1.87
Modulus of Rupture (MOR)						
Average	N/mm²	15	18.39	22.96	42.22	50.78
Modulus of Elasticity (MOE)						
Average	N/mm²	2500	2796	2581	3850	7813
Tensile Strength Perpendicular to Surface (min)						
Up to 20mm Thickness	N/mm²	0.45	0.85	0.78	1.35	0.79
Tensile Strength Perpendicular to Surface After (min)						
i) Boiling Test (2 hours)	N/mm²	0.15	0.26	0	0.03	Layer Separated
ii) Cyclic Test		0.20	0.35	0	0.05	0.60
Screw Withdrawal Strength (min)						
i)Face	N	1250	3447	2552	4290	3472
ii)Edge (for Thickness >12mm)		850	2356	1225	2726	2139
Thickness Swelling After Two Hour Boiling Test	%	NA	26.75	155.25	81.03	Layer Separated
Thickness Swelling After Cyclic Test	%	NA	10.61	27.17	13.25	2.23

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