

FACTORY INHOUSE TEST REPORT

MARINE PLYWOOD IS: 710-2010

Sample Size: 2440 x 1220 x 19mm

Date: 20-03-2023

Grade : BWP

Type : AA

Brand : HUTTON

Sl. No.	TEST	PRESCRIBED VALUE	RESULTS
1.	Dimension (mm) a) Length b) Width c) Thickness	Tolerance of a) + 6 mm, - 0 mm b) + 3 mm, - 0 mm c) + 5%	Tolerance of - a) + 2 b) +2 c) 18.70 to19.40mm
2.	Squareness, %	0.20	0.12
3.	Edge Straightness, %	0.20	0.11
4.	Workmanship and finish	As per Clause 9	Conforms
5.	Moisture content, %	5 to 15	9.8%
6.	I) <u>Glue Shear Strength in dry state (N)</u> a) Average b) Minimum Individual ii) Adhesion of plies (knife test)	a) 1350 b) 1100 ii) Min. Pass Standard	a) 1420 b) 1220 ii) Excellent
7.	Resistance of water (After 72 hour boiling) i) <u>Glue Shear Strength (N)</u> a) Average b) Minimum Individual ii) Adhesion of plies (knife test)	a) 1000 b) 800 ii) Min. Pass Standard	a) 1190 b) 920 ii)Excellent
8.	Resistance of Micro-organism (N) i) <u>Glue Shear Strength (N)</u> a) Average b) Minimum Individual ii) <u>Adhesion of plies (knife test)</u>	a) 1000 b) 800 ii) a) No separation at edges b) Min. Pass Standard	a) 1070 b) 885 ii) Pass standard
9.	Tensile Strength (kg/cm²) i) Parallel to the face grain ii) Perpendicular to the face grain iii) Sum of the Tensile Strength	i) Min : 420 ii) Min : 250 iii) Min : 845	i) 540 ii) 340 iii) 970

Modulus of Elasticity, (N/ mm²) (Static Bending strength)

10

Parallel to the face grain,	Avg. 7500	Avg. 8100
	Min. 6700	Min. 7000
Perpendicular to the face grain,	Avg. 4000	Avg. 4950
	Min. 3600	Min. 4010

Modulus of Rupture, (N/mm²)

11

Parallel to the face grain,	Avg. 50	Avg. 57
	Min. 45	Min. 48
Perpendicular to the face grain,	Avg. 30	Avg. 40
	Min. 27	Min. 31

Modulus of Elasticity, (N/ mm²) (Wet Bending Strength)

12

Parallel to the face grain,	Avg. 3750	Avg. 4090
	Min. 3400	Min. 3430
Perpendicular to the face grain,	Avg. 2000	Avg. 2530
	Min. 1800	Min. 1910

Modulus of Rupture, (N/mm²)

13

Parallel to the face grain,	Avg. 25	Avg. 33
	Min. 22	Min. 29
Perpendicular to the face grain,	Avg. 15	Avg. 21
	Min. 13	Min. 17

Remarks: Samples Conform to as per IS: 710 – 2010.

