

**TEST REPORT OF PLYWOOD AS PER IS 710:2010**

**NATURE OF THE SAMPLE : MARINE PLYWOOD**  
**SIZE OF THE SAMPLE : 2440X1220X18MM**  
**GRADE : BWP**  
**BRAND NAME : PLYMARC TRUST**

SI: NO	CLAUSE NO:	TESTS	VALUE AS PER SPECIFICATION	RESULTS/ OBSERVATION
1	7	<b>WORKMANSHIP AND FINISH</b>		SATISFACTORY
2	6	<b>NOMINAL THICKNESS</b>	18MM ± 5%	17.94 TO 18.10
3	6	<b>LENGTH</b>	2440 +6/-0 MM	2441
4	6	<b>WIDTH</b>	1220 +3/ 0MM	1222
5	6	<b>SQUARENESS</b>	0.2% Max	0.08%
6	6	<b>EDGE STRAIGHTNESS</b>	0.2% MAX	0.05%
7	9.1.1	<b>MOISTURE CONTENT</b>	5 to 15%	9%
8		<b>DENSITY</b>	MORE THAN 750KG/M <sup>3</sup>	750 TO 780 KG/M <sup>3</sup>
9	9.1.2	<b><u>GLUE ADHESION IN DRY STATE</u></b>		
		AVERAGE	1350 N Min	1665
		MINIMUM INDIVIDUAL	1100 N Min	1390
		ADHESION OF PLYS	Min Pass Standard	PASS STANDARD
10	9.1.3	<b><u>WATER RESISTANCE TEST (After 72 hour of Boiling)</u></b>		
		AVERAGE	1000 N Min	1290
		MINIMUM INDIVIDUAL	800 N Min	1155
		ADHESION OF PLYS	Min Pass Standard	PASS STANDARD
11	9.1.5	<b><u>MYCOLOGICAL TEST</u></b>		
		SEPARATION AT THE EDGES	SHOW NO SIGN OF SEPERATION	NO SEPERATION OBSERVED
		AVERAGE	1000 N Min	1330
		MINIMUM INDIVIDUAL	800 N Min	1195
		ADHESION OF PLYS	Min Pass Standard	PASS STANDARD

12	9.1.4	<b><u>TENSILE STRENGTH</u></b>		
		PARALLEL TO GRAIN DIRECTION OF FACE VENEER	42.0 N/mm <sup>2</sup> Min.	47.50
		PERPENDICULAR TO GRAIN DIRECTION OF FACE VENEER	25.0 N/mm <sup>2</sup> Min.	44.49
		SUM OF TENSILE STRENGTH	84.5 N/mm <sup>2</sup> Min.	91.99
13	9.1.6	<b><u>STATIC BENDING TEST</u></b>		
		<b>MOE (IN DIRECTION PARALLEL TO GRAIN DIRECTION)</b>		
		AVERAGE	7500 N/mm <sup>2</sup>	8860
		MINIMUM INDIVIDUAL	6700 N/mm <sup>2</sup>	7320
		<b>MOR (IN DIRECTION PARALLEL TO GRAIN DIRECTION)</b>		
		AVERAGE	50 N/mm <sup>2</sup>	65
		MINIMUM INDIVIDUAL	45 N/mm <sup>2</sup>	51
14	9.1.6	<b><u>STATIC BENDING TEST</u></b>		
		<b>MOE (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)</b>		
		AVERAGE	4000 N/mm <sup>2</sup>	9630
		MINIMUM INDIVIDUAL	3600 N/mm <sup>2</sup>	5130
		<b>MOR (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)</b>		
		AVERAGE	30 N/mm <sup>2</sup>	55
		MINIMUM INDIVIDUAL	27 N/mm <sup>2</sup>	44
15	9.1.7	<b><u>WET BENDING TEST</u></b>		
		<b>MOE (IN DIRECTION PARALLEL TO GRAIN DIRECTION)</b>		
		AVERAGE	3750 N/mm <sup>2</sup>	5280
		MINIMUM INDIVIDUAL	3400 N/mm <sup>2</sup>	4565
		<b>MOR (IN DIRECTION PARALLEL TO GRAIN DIRECTION)</b>		
		AVERAGE	25 N/mm <sup>2</sup>	39
		MINIMUM INDIVIDUAL	22 N/mm <sup>2</sup>	31

16	9.1.7	<b><u>WET BENDING TEST</u></b>		
		<b>MOE (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)</b>		
		AVERAGE	2000 N/mm <sup>2</sup>	6340
		MININIMUM INDIVIDUAL	1800 N/mm <sup>2</sup>	4565
		<b>MOR (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)</b>		
		AVERAGE	15 N/mm <sup>2</sup>	39
		MININIMUM INDIVIDUAL	13 N/mm <sup>2</sup>	27
17	9.1.8	<b>PRESERVATIVE CHEMICALS</b>		
		TOTAL RETENTION OBTAINED	12 Kg/m <sup>3</sup> Min.	13.02