

### 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 GOLD

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>	19MM ± 5%	17.90 TO 18.15
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%	9.03%
8		<b>DENSITY</b>	MORE THAN 650KG/M <sup>3</sup>	650 TO 700 KG/M <sup>3</sup>
9	9.1.2	<b><u>GLUE ADHESION IN DRY STATE</u></b>		
		AVERAGE	1350 N Min	1417
		MINIMUM INDIVIDUAL	1100 N Min	1274
		ADHESION OF PLIES	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	1082
		MINIMUM INDIVIDUAL	800 N Min	994
		ADHESION OF PLIES	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	1115
		MINIMUM INDIVIDUAL	800 N Min	1095
		ADHESION OF PLIES	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.	43.60
		PERPENDICULAR TO GRAIN DIRECTION OF FACE VENEER	25.0 N/mm <sup>2</sup> Min.	44.37
		SUM OF TENSILE STRENGTH	84.5 N/mm <sup>2</sup> Min.	87.97
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>	7875
		MINIMUM INDIVIDUAL	6700 N/mm <sup>2</sup>	7625
		<b>MOR (IN DIRECTION PARALLEL TO GRAIN DIRECTION)</b>		
		AVERAGE	50 N/mm <sup>2</sup>	51
		MINIMUM INDIVIDUAL	45 N/mm <sup>2</sup>	49
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>	5204
		MINIMUM INDIVIDUAL	3600 N/mm <sup>2</sup>	5136
		<b>MOR (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)</b>		
		AVERAGE	30 N/mm <sup>2</sup>	38
		MINIMUM INDIVIDUAL	27 N/mm <sup>2</sup>	36
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>	4923
		MINIMUM INDIVIDUAL	3400 N/mm <sup>2</sup>	4794
		<b>MOR (IN DIRECTION PARALLEL TO GRAIN DIRECTION)</b>		
		AVERAGE	25 N/mm <sup>2</sup>	31
		MINIMUM INDIVIDUAL	22 N/mm <sup>2</sup>	29

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>	3254
		MINIMUM INDIVIDUAL	1800 N/mm <sup>2</sup>	3137
		<b>MOR (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)</b>		
		AVERAGE	15 N/mm <sup>2</sup>	25
		MINIMUM INDIVIDUAL	13 N/mm <sup>2</sup>	24
17	9.1.8	<b>PRESERVATIVE CHEMICALS</b>		
		TOTAL RETENTION OBTAINED	12 Kg/m <sup>3</sup> Min.	13.02