

TEST REPORT OF PLYWOOD AS PER IS 710:2010

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

SI: NO	CLAUSE NO:	TESTS	VALUE AS PER SPECIFICATION	RESULTS/OBSERVATION
1	7	WORKMANSHIP AND FINISH		SATISFACTORY
2		NOMINAL THICKNESS- CALIBRATED	19MM \pm 0.1%	18.10 TO 18.25
3	6	LENGTH	2440 +6/-0 MM	2440
4	6	WIDTH	1220 +3/ 0MM	1221
5	6	SQUARENESS	0.2% Max	0.07%
6	6	EDGE STRAIGHTNESS	0.2% MAX	0.04%
7	9.1.1	MOISTURE CONTENT	5 to 15%	9.70%
8		DENSITY	MORE THAN 700KG/M ³	720 TO 750 KG/M ³
9	9.1.2	<u>GLUE ADHESION IN DRY STATE</u>		
		AVERAGE	1350 N Min	1550
		MINIMUM INDIVIDUAL	1100 N Min	1315
		ADHESION OF PLYS	Min Pass Standard	PASS STANDARD
10	9.1.3	<u>WATER RESISTANCE TEST (After 72 hour of Boiling)</u>		
		AVERAGE	1000 N Min	1105
		MINIMUM INDIVIDUAL	800 N Min	998
		ADHESION OF PLYS	Min Pass Standard	PASS STANDARD
11	9.1.5	<u>MYCOLOGICAL TEST</u>		
		SEPARATION AT THE EDGES	SHOW NO SIGN OF SEPERATION	NO SEPERATION OBSERVED
		AVERAGE	1000 N Min	1233
		MINIMUM INDIVIDUAL	800 N Min	1125
		ADHESION OF PLYS	Min Pass Standard	PASS STANDARD

12	9.1.4	<u>TENSILE STRENGTH</u>		
		PARALLEL TO GRAIN DIRECTION OF FACE VENEER	42.0 N/mm ² Min.	44.90
		PERPENDICULAR TO GRAIN DIRECTION OF FACE VENEER	25.0 N/mm ² Min.	45.30
		SUM OF TENSILE STRENGTH	84.5 N/mm ² Min.	90.2 N/mm ² Min
13	9.1.6	<u>STATIC BENDING TEST</u>		
		MOE (IN DIRECTION PARALLEL TO GRAIN DIRECTION)		
		AVERAGE	7500 N/mm ²	7960
		MINIMUM INDIVIDUAL	6700 N/mm ²	7680
		MOR (IN DIRECTION PARALLEL TO GRAIN DIRECTION)		
		AVERAGE	50 N/mm ²	56
		MINIMUM INDIVIDUAL	45 N/mm ²	49
14	9.1.6	<u>STATIC BENDING TEST</u>		
		MOE (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)		
		AVERAGE	4000 N/mm ²	5380
		MINIMUM INDIVIDUAL	3600 N/mm ²	5195
		MOR (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)		
		AVERAGE	30 N/mm ²	41
		MINIMUM INDIVIDUAL	27 N/mm ²	37
15	9.1.7	<u>WET BENDING TEST</u>		
		MOE (IN DIRECTION PARALLEL TO GRAIN DIRECTION)		
		AVERAGE	3750 N/mm ²	4960
		MINIMUM INDIVIDUAL	3400 N/mm ²	4815
		MOR (IN DIRECTION PARALLEL TO GRAIN DIRECTION)		
		AVERAGE	25 N/mm ²	36
		MINIMUM INDIVIDUAL	22 N/mm ²	31

16	9.1.7	<u>WET BENDING TEST</u>		
		MOE (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)		
		AVERAGE	2000 N/mm ²	3345
		MINIMUM INDIVIDUAL	1800 N/mm ²	3287
		MOR (IN DIRECTION PERPENDICULAR TO GRAIN DIRECTION)		
		AVERAGE	15 N/mm ²	31
		MINIMUM INDIVIDUAL	13 N/mm ²	27
17	9.1.8	PRESERVATIVE CHEMICALS		
		TOTAL RETENTION OBTAINED	12 Kg/m ³ Min.	13.02