

TEST REPORT**Fire Retardant Plywood IS:5509:2000****BRAND- ARCHER FIRE RETARDANT**

C.U.NO- DM/11

DATE - 15.01.2020

SIZE - 2440 X 1220 X 06 MM

S.NO	TEST	Requirement result	Obtained result
1	Length	2440+6 mm	2443 mm
	Width	1220 + 3 mm	1222 mm
	Thickness	06 mm+5 % mm	6.05 mm
2	Moisture Content	5-15% (RH)	9.36%
3	Mass Density (P)	-	720 kg/M ³
4	Flame penetration test	As per IS 1734(part 3) the time taken shall not be less than 15 mins in every 6 mm Thickness.	28 minutes
5	Flammability	Time taken for second ignition shall not be 30 minutes.	35 minutes
6	Rate of burning Test	Shall not be less than 20 minutes	31 min
7	Glue adhesion & water resistance that cyclic test followed by knit test (3 cycle foiling test of 8 hrs. at the temperature required.	Should not fail Glue and no delamination	Excellent
8	MOR (Modulus of Rapture)		
a)	Along the Grain	Av.40N/mm ² (min 36N/mm ²)	51 N/mm ² (49)
b)	Across the Grain	Av.20N/mm ² (min 18N/mm ²)	28N/mm ² (27)
9	MOE (Modulus of Elasticity)		
a)	Along the Grain	Av.5000N/mm ² (ind.4500N/mm ²)	5012 N/mm ² (5008)
b)	Across the Grain	Av.2500N/mm ² (ind.2200N/mm ²)	2795 N/mm ² (2783)
10)	Resistance to micro-organism	PASS STANDARD Av 1000N Min 800 N	PASSED 1022 N 1018 N
11)	Glue shear strength & Adhesion of plies	Av 1000N Min 800 N & PASS STANDARD	1059 N 1046 N & EXCELLENT

NOTE-Fire retardant under our BIS License no CM/L -6600026407 valid up to 31 oct 2020.

Date: - 15.01.2020

Signature

(Chemist)



Survey No. 234/1 & 235/2, Vellanki Village, Anandapuram Mandal, Bhimili Road, Visakhapatnam (Dist.) 534 163
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 Regd. Off : Room No. 28, 5th Floor, Model House, 40 Strand Road, Kolkata-700 001 (West Bengal)

TEST REPORT**Fire Retardant Plywood IS:5509:2000****BRAND - ARCHER FIRE RETARDANT**

C.U.NO- DM/11

DATE - 15.01.2020

SIZE - 2440 X 1220 X 09 MM

S.NO	TEST	Requirement result	Obtained result
1	Length	2440+6 mm	2443 mm
	Width	1220 + 3 mm	1222 mm
	Thickness	9mm+5 % mm	09.05 mm
2	Moisture Content	5-15% (RH)	9.10 %
3	Mass Density (P)	-	720 kg/M ³
4	Flame penetration test	As per IS 1734(part 3) the time taken shall not be less than 15 mins in every 6 mm Thickness.	33minutes
5	Flammability	Time taken for second ignition shall not be 30 minutes.	32 minutes
6	Rate of burning Test	Shall not be less than 20 minutes	31 min
7	Glue adhesion & water resistance that cyclic test followed by knit test (3 cycle foiling test of 8 hrs. at the temperature required.	Should not fail Glue and no delamination	Excellent
8	MOR (Modulus of Rapture)		
a)	Along the Grain	Av.40N/mm ² (min 36N/mm ²)	49 N/mm ² (48)
b)	Across the Grain	Av.20N/mm ² (min 18N/mm ²)	29 N/mm ² (27.5)
9	MOE (Modulus of Elasticity)		
a)	Along the Grain	Av.5000N/mm ² (ind.4500N/mm ²)	5036 N/mm ² (5028)
b)	Across the Grain	Av.2500N/mm ² (ind.2200N/mm ²)	2790 N/mm ² (2780)
10)	Resistance to micro-organism	PASS STANDARD Av 1000N Min 800 N	PASSED 1036 N 1028 N
11)	Glue shear strength & Adhesion of plies	Av 1000N Min 800 N & PASS STANDARD	1089 N 1073 N & EXCELLENT

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TEST REPORT**Fire Retardant Plywood IS:5509:2000****BRAND - ARCHER FIRE RETARDANT**

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DATE - 15.01.2020

SIZE - 2440 X 1220 X 12 MM

S.NO	TEST	Requirement result	Obtained result
1	Length	2440+6 mm	2443 mm
	Width	1220 + 3 mm	1222 mm
	Thickness	12 mm±5 % mm	12.05 mm
2	Moisture Content	5-15% (RH)	10.10%
3	Mass Density (P)	-	720 kg/M ³
4	Flame penetration test	As per IS 1734(part 3) the time taken shall not be less than 15 mins in every 6 mm Thickness.	41 minutes
5	Flammability	Time taken for second ignition shall not be 30 minutes.	37 minutes
6	Rate of burning Test	Shall not be less than 20 minutes	34 min
7	Glue adhesion & water resistance that cyclic test followed by knit test (3 cycle foiling test of 8 hrs. at the temperature required.	Should not fail Glue and no delamination	Excellent
8	MOR (Modulus of Rapture)		
a)	Along the Grain	Av.40N/mm ² (min 36N/mm ²)	51 N/mm ² (49)
b)	Across the Grain	Av.20N/mm ² (min 18N/mm ²)	29 N/mm ² (28)
9	MOE (Modulus of Elasticity)		
a)	Along the Grain	Av.5000N/mm ² (ind.4500N/mm ²)	5092 N/mm ² (5073)
b)	Across the Grain	Av.2500N/mm ² (ind.2200N/mm ²)	2812 N/mm ² (2796)
10)	Resistance to micro-organism	PASS STANDARD Av 1000N Min 800 N	PASSED 1057 N 1043 N
11)	Glue shear strength & Adhesion of plies	Av 1000N Min 800 N & PASS STANDARD	1081 N 1072 N & EXCELLENT

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TEST REPORT**Fire Retardant Plywood IS:5509:2000****BRAND- ARCHER FIRE RETARDANT**

C.U.NO- DM/11

DATE - 15.01.2020

SIZE - 2440 X 1220 X 16 MM

S.NO	TEST	Requirement result	Obtained result
1	Length	2440+6 mm	2443 mm
	Width	1220 + 3 mm	1222 mm
	Thickness	16mm±5 % mm	16.08 mm
2	Moisture Content	5-15% (RH)	10.36%
3	Mass Density (P)	-	720 kg/M ³
4	Flame penetration test	As per IS 1734(part 3) the time taken shall not be less than 15 mins in every 6 mm Thickness.	53minutes
5	Flammability	Time taken for second ignition shall not be 30 minutes.	36 minutes
6	Rate of burning Test	Shall not be less than 20 minutes	35 min
7	Glue adhesion & water resistance that cyclic test followed by knit test (3 cycle foiling test of 8 hrs. at the temperature required.	Should not fail Glue and no delamination	Excellent
8	MOR (Modulus of Rapture)		
a)	Along the Grain	Av.40N/mm ² (min 36N/mm ²)	53 N/mm ² (50)
b)	Across the Grain	Av.20N/mm ² (min 18N/mm ²)	28N/mm ² (27)
9	MOE (Modulus of Elasticity)		
a)	Along the Grain	Av.5000N/mm ² (ind.4500N/mm ²)	5036 N/mm ² (5023)
b)	Across the Grain	Av.2500N/mm ² (ind.2200N/mm ²)	2736 N/mm ² (2700)
10)	Resistance to micro-organism	PASS STANDARD Av 1000N Min 800 N	PASSED 1090N 1086N
11)	Glue shear strength & Adhesion of plies	Av 1000N Min 800 N & PASS STANDARD	1105N 1095N & EXCELLENT

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TEST REPORT

Fire Retardant Plywood IS:5509:2000

BRAND - ARCHER FIRE RETARDANT

C.U.NO- DM/11

DATE - 15.01.2020

SIZE - 2440 X 1220 X 19 MM

S.NO	TEST	Requirement result	Obtained result
1	Length	2440+6 mm	2443 mm
	Width	1220 + 3 mm	1222 mm
	Thickness	19 mm±5 % mm	19.12 mm
2	Moisture Content	5-15% (RH)	11.23 %
3	Mass Density (P)	-	720 kg/M ³
4	Flame penetration test	As per IS 1734(part 3) the time taken shall not be less than 15 mins in every 6 mm Thickness.	64 minutes
5	Flammability	Time taken for second ignition shall not be 30 minutes.	38 minutes
6	Rate of burning Test	Shall not be less than 20 minutes	32 min
7	Glue adhesion & water resistance that cyclic test followed by knit test (3 cycle foiling test of 8 hrs. at the temperature required.	Should not fail Glue and no delamination	Excellent
8	MOR (Modulus of Rapture)		
a)	Along the Grain	Av.40N/mm ² (min 36N/mm ²)	51 N/mm ² (49)
b)	Across the Grain	Av.20N/mm ² (min 18N/mm ²)	29 N/mm ² (28)
9	MOE (Modulus of Elasticity)		
a)	Along the Grain	Av.5000N/mm ² (ind.4500N/mm ²)	5036 N/mm ² (5039)
b)	Across the Grain	Av.2500N/mm ² (ind.2200N/mm ²)	2800 N/mm ² (2790)
10)	Resistance to micro-organism	PASS STANDARD Av 1000N Min 800 N	PASSED 1023 N 1001 N
11)	Glue shear strength & Adhesion of plies	Av 1000N Min 800 N & PASS STANDARD	1053 N 1021 N & EXCELLENT

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