

तार : आई पी आई आर टी आई, कलकाता - ३४
Grams : IPIRTI, Calcutta - 34
E-mail : ipirti@vsnl.net

फैक्स : ९१-३३-२४९८३१२०
Fax : 91-33-24983120
दुरभाष : ९१-३३-२४९८३१२०
Phone : 91-33-24983120
Home page: http : // www.ipirti.gov.in



भारतीय प्लाईवुड उद्योग अनुसंधान और प्रशिक्षण संस्थान
INDIAN PLYWOOD INDUSTRIES RESEARCH & TRAINING INSTITUTE

फील्ड स्टेशन, कोलकाता / FIELD STATION, KOLKATA
(भारत सरकार, पर्यावरण एवं वन मंत्रालय का स्वायत्त निकाय)
(Autonomous Body of the Ministry of Environment & Forests, Government of India)
२/२, बीरेन राय रोड (वैस्ट) सरसुना, कोलकाता - ७०० ०६१
2/2, Biren Roy Road, (West) Sarsuna, Kolkata - 700 061

सं./ No. KFS/Chem/Testing/Extender/2631/11-12/ 1006

दिनांक/ Date 20.01.2012

To,
M/s. Mridul Chemicals Pvt. Ltd.
7, Burnt Salt Gola Lane,
5th Floor, Flat No. 5A
Howrah - 711 101

प्रिय महोदय/
Dear Sir,

विषय: नमूने के पराईक्षण रिपोर्ट
Sub: Test report for Xtra Bond - Super(Extender / Filler) as per IS: 848-2006

संदर्भ: १. आपका पत्रांक दिनांक
Ref: Your letter No. Nil dated 05.01.2012

कृपया उपरोक्त पत्र का संदर्भ ले
Please refer to the above letter.

परीक्षण रिपोर्ट संलग्न है
Test report is enclosed.

संलग्नक: क/क
Encl: a/a

भवदीय,
Yours faithfully,

प्रभारी अधिकारी
Officer - in - Charge

प्रभारी अधिकारी
Officer-in-Charge
भारतीय प्लाईवुड उद्योग
Indian Plywood Industries
अनुसंधान और प्रशिक्षण संस्थान
Research & Training Institute
२/२, बीरेन राय रोड (पश्चिम), सरसुना
2/2, Biren Roy Road (West), Sarsuna
कोलकाता - ७०० ०६१
Kolkata - 700 061



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Page 1 of 3

TEST REPORT

Report Issued to:

M/s. Mridul Chemicals Pvt. Ltd.

7, Burnt Salt Gola Lane,

5th Floor, Flat No. 5A

Howrah - 711 101

TEST REPORT AS PER IS: 848-2006 [WITH AMENDMENT NO(s)_____]

REPORT NO: KFS/Chem/Testing/Extender/2631/11-12

DATED: 20.01.2012

Your Ref: Nil

Ref. Date: 05.01.2012

Date(S) of performance of test: From: 06.01.2012 To: 19.01.2012

PART - A: PARTICULARS OF THE SAMPLE SUBMITTED:

- | | | |
|------------------------------|---|--------------------------------------|
| (a) Nature of Sample | : | Xtra Bond - Super(Extender / Filler) |
| (b) Grade/Variety/Type/Class | : | MR Grade |
| (c) Size of Sample | : | -- |
| (d) Brand Name, if any | : | -- |
| (e) Declared Values | : | -- |
| (f) Code No. | : | -- |
| (g) Batch No. & Date of Mfg | : | -- |
| (h) Quantity | : | 1.0 Kg |
| (i) Mode of Packing | : | Packed in a Polythene Packet |
| (j) Date of Receipt | : | 05.01.2012 |
| (k) Seal / Stamp | : | -- |
| (l) IO's Signature | : | Signed |
| (m) Any Other Information | : | -- |

Adhesive Formulation :

Powder/Liquid resin : UF Liquid Resin - 200gms

Water : N.A.

Extender : Xtra Bond Super - 06 gms

Hardener : NH_4Cl - 1.0 gms, Liq NH_3 - 1.6 ml

Flow time in B6 Cup (IS: 3944-1982): 12 Seconds

Plywood Manufacturing Condition :

Species of Timber used: Dipterocarpus Sp. (Gurjan)

Open Assembly Time : 30 minutes

Thickness of veneers: 1.6 / 1.6 / 1.6 mm

Hot press temperature : 110° C

Plywood Construction: 03 Ply

Hot press pressure : 10.5Kg/cm²

Moisture content of veneers: 6.88 %

Hot press time : 6 minutes for 4mm ply

Spread : 350gms/mt² (D.G.L.)

Authorized Signatory

Name: Amitava Sil

Designation: Officer-In-Charge

प्रभारी अधिकारी

आई.पी.आई.आर.टी.आई., फील्ड स्टेशन

2/2, बीरेन राय रोड, वेस्ट सरसुना

कोलकाता - 700061



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Page 2 of 3

PART - B: SUPPLEMENTARY INFORMATIONS:

- (a) Reference to the sampling procedure, wherever applicable : N.A.
- (b) Supporting documents for the measurement taken and results derived like graphs, tables, sketches and/or photographs as appropriate to the test report if any (To be attached) : N.A.
- (c) Deviations from test methods as prescribed in relevant ISS/Work Instructions, if any : N.A.

PART - C: TEST RESULT:

REPORT NO: KFS/Chem/Testing/Extender/2631/11-12

IS: 848-2006

DATED: 20.01.2012

Sl No.	Tests	Cl No.	Test Method	Requirement as per IS:848-2006	Results
1	2	3	4	5	6
1	BWP GRADE (Boiling water Proof) Six cycles : Each cycle consisting of 8 hours boiling in water and thereafter drying at 65±20C for 16 hours.	Clause 4 and 7.3.2	Table -1 of IS :848 - 2006	No separation of plies at the edges and /or surface at the end of six cycles. On forcible separation of plies with knife, wood failure shall be predominant and shall be more than 75% for excellent bond and not less than 50% for pass standard. For less than 50% wood failure, the specimen shall be considered as failed.	N.A.
2	BWR GRADE (Boiling water Resistant) Three cycles : Each cycle consisting of 8 hours boiling in water and thereafter drying at 65±20C for 16 hours.	Clause 4 and 7.3.2	Table -1 of IS :848 - 2006	No separation of plies at the edges and /or surface at the end of three cycles. On forcible separation of plies with knife, wood failure shall be predominant and shall be more than 75% for excellent bond and not less than 50% for pass standard. For less than 50% wood failure, the specimen shall be considered as failed.	N.A.

Authorized Signatory
Name: Amitava Sil
Designation: Officer-In-Charge

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Page 3 of 3

REPORT NO: KFS/Chem/Testing/Extender/2631/11-12

IS: 848-2006

DATED: 20.01.2012

Sl No.	Tests	Cl No.	Test Method	Requirement as per IS:848-2006	Results
1	2	3	4	5	6
3	MR GRADE (Moisture Resistant) Three cycles: Each cycle consisting of 3 hours 60±20C in water and thereafter drying at 65±20C for 8 hours.	Clause 4 and 7.3.2	Table -1 of IS :848 - 2006	No separation of plies at the edges and /or surface at the end of three cycles. On forcible separation of plies with knife, wood failure shall be predominant and shall be more than 75% for excellent bond and not less than 50% for pass standard. For less than 50% wood failure, the specimen shall be considered as failed.	No separation of plies at the edges and /or surface at the end of three cycles. 60% Wood Failure Pass Standard
4	Acidity/ Alkalinity (pH of the cured film	Clause- 7.4	Annex-B of IS :848 - 2006	Not less than 2.0	6.92

Sample Conforms to the requirement of MR grade as per IS : 848-2006

PART - D: REMARKS:

- Note: (a) The test results are relevant to the sample received for testing. Endorsement are of product is neither inferred nor implied.
(b) Remnants of tested material if any will be retained for a period of 6 months only from the date of issue of test reports.
(c) This report is not to be reproduced wholly or in parts and cannot be used as an evidence in the court of law and shall not be used in any advertising media without our special permission in writing.

Authorized Signatory
Name: Amitava Sil
Designation: Officer-In-Charge

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