



TEST REPORT NO : 1001277614

Aug 10, 2021

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Applicant : MOORIM P&P CO., LTD. **Test Date :** Jul 15, 2019-Aug 10, 2021
Address : 656, Gangnam-daero, Gangnam-gu, Seoul, Republic of Korea **Received Date:** Jul 15, 2019

Contact Person : Gwon, Byeong Cheon

Sample Description: Moorim Molded Pulp Fiber
Model/ Style No: Moorim Molded Pulp Fiber **Supplier:** MOORIM P&P CO., LTD.
Country of Origin: South Korea

For and on behalf of
UL VS Hong Kong Limited

Kenneth Ho - Testing Manager
Hardlines & Toys

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| <u>Test Item</u> | <u>Conclusion</u> |
|---|-------------------|
| Extractable Heavy Metal [BfR Recommendation XXXVI. Paper and Board for Food Contact] | PASS |
| Determination of Formaldehyde [BfR Recommendation XXXVI. Paper and Board for Food Contact] | PASS |
| Determination of Fastness of Fluorescent Whitened Paper and Board [BfR Recommendation XXXVI. Paper and Board for Food Contact] | PASS |
| Determination of colour fastness of dyed paper and board [BfR Recommendation XXXVI. Paper and Board for Food Contact] | PASS |
| Sensory Analysis (Odour and Off-flavour) [BfR Recommendation XXXVI. Paper and Board for Food Contact] | PASS |
| Specific Migration of Primary Aromatic Amines (PAA) for Food Contact Plastic [BfR Recommendation XXXVI. Paper and Board for Food Contact] | PASS |
| Pentachlorophenol (PCP) Content [BfR Recommendation XXXVI. Paper and Board for Food Contact] | PASS |
| The Transfer of Antimicrobial Constituents for Food Contact Paper [BfR Recommendation XXXVI] | PASS# |
| Remark: 1. The results relate only to the samples tested. 2. "NC"=No Comment, "NA"=Not Applicable, " * " See the attached test results details. 3. # Test was performed by sub contractor. | |

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Sample Information :

| Sample | Product |
|--------|--------------------------|
| 001 | Moorim Molded Pulp Fiber |
| 002 | White paper |

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(01) Extractable Heavy Metal [BfR Recommendation XXXVI. Paper and Board for Food Contact]
Test Method: EN 645 and analysis by ICP-MS and UV-Vis

Table with 3 columns: Elements, 002, Limit. Rows include Lead, Cadmium, Aluminium, and Rating (PASS).

"<" means "less than";
"µg/L" means "microgram per litre"
"mg/kg" means milligrams per kilogram
"mg/dm²" means "milligram per square decimetre"
*Detection limit = 0.0005 mg/dm²
"ND" Means Not detected

(02) Determination of Formaldehyde [BfR Recommendation XXXVI. Paper and Board for Food Contact]
Test Method: EN 645 and analysis by EN 1541

Table with 4 columns: Sample, Result, Limit, Rating. Row 002 shows Result <0.5, Limit 1.0, Rating PASS.

All results expressed in mg/dm² (milligram per square decimetre)
"<" means "less than"

(03) Determination of Fastness of Fluorescent Whitened Paper and Board [BfR Recommendation XXXVI. Paper and Board for Food Contact]

Method: EN648: 2006 – Procedure A (Long Duration Contact) and Evaluated by Comparison with a Series of Fluorescent Whitened Comparison Papers.

Table with 6 columns: Sample, Distilled Water (GRADE), 3% Acetic Acid (GRADE), Saliva Simulant 5g/l (GRADE), Olive Oil (GRADE), LIMIT (GRADE). Row 002 shows all GRADE 5.

"GRADE 1" signifies poor fastness; "GRADE 5" signifies good fastness

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(04) Determination of colour fastness of dyed paper and board [BfR Recommendation XXXVI. Paper and Board for Food Contact]

Method: EN646: 2006 – Procedure A (Long Duration Contact) and Visual Evaluation Against a Blank to Detect Any Bleeding (yes/no)

| Sample | RESULT | | | | LIMIT |
|--------|-----------------|----------------|----------------------|-----------|-------|
| | Distilled Water | 3% Acetic Acid | Saliva Simulant 5g/l | Olive Oil | |
| 002 | No | No | No | No | No |

“Yes” means “bleeding”; “No” means “no bleeding”

(05) Sensory Analysis (Odour and Off-flavour) [BfR Recommendation XXXVI. Paper and Board for Food Contact]

Test Method: EN 1230-1&2

| | |
|--|------|
| Test Sample | 002 |
| Odour Evaluation | 0 |
| Off-flavour Evaluation (Distilled Water) | 0 |
| Off-flavour Evaluation (Coconut Oil) | 0 |
| Rating | PASS |

Test Requirement:

If the evaluation is less than 3. In a composite, multi-layered or coated material, if the layer which comes into contact with the foodstuff is made of paper or paperboard it must comply with this Recommendation. Also, except for traces that are harmless to health and have no effect on taste or smell of the foodstuff, there must be no migration of substances from other layers into foodstuffs or on their surface.

Remark:

- 0 = No Discernible Deviation
- 1 = Barely Discernible Deviation
- 2 = Weak Deviation
- 3 = Clear Deviation
- 4 = Strong Deviation

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(06) Specific Migration of Primary Aromatic Amines (PAA) for Food Contact Plastic [BfR Recommendation XXXVI. Paper and Board for Food Contact]

Test Method: EUR 24815 EN 2011;
Food Simulant Used: 3% Acetic Acid
Test Conditions: 2 hours at 70°C

Table with 4 columns: Test Item, CAS No., 002, Limits. Lists various aromatic amines and their migration limits, all set at 0.002.

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| | | | |
|----------------------------------|----------|--------|------|
| Sum of other PAAs [#] | - | <0.01 | 0.01 |
| Aniline [#] | 62-53-3 | <0.002 | - |
| 2,4-Dimethylaniline [#] | 95-68-1 | <0.002 | - |
| 2,6-Dimethylaniline [#] | 87-62-7 | <0.002 | - |
| m-Phenylenediamine [#] | 108-45-2 | <0.002 | - |
| 2,6-Toluenediamine [#] | 823-40-5 | <0.002 | - |
| Rating | - | PASS | - |

All result expressed in mg/kg; "<" means "less than"
"mg/kg" means "milligrams per kilogram of food simulant"

Remark:

1. [#] means that other PAAs (Primary Aromatic Amines) include the substances not listed in entry 43 to Appendix 8 of Annex XVII to Regulation (EC) No 1907/2006 which are Aniline; 2,4-Dimethylaniline; 2,6-Dimethylaniline; m-Phenylenediamine and 2,6-Toluenediamine.

(07) Pentachlorophenol (PCP) Content [BfR Recommendation XXXVI. Paper and Board for Food Contact]
Test Method: in house method

| | | |
|-------------------------|-------|-------|
| | 002 | Limit |
| Pentachlorophenol (PCP) | <0.01 | 0.15 |
| Rating | PASS | - |

All results expressed in "mg/kg";
"<" means "less than";
"mg/kg" means "milligram per kilogram"

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(08) The Transfer of Antimicrobial Constituents for Food Contact Paper [BfR Recommendation XXXVI]

Test Method: EN 1104:2018

| <u>Sample</u> | <u>Test Bacteria</u> | <u>Test Condition</u> | <u>Inhibition Zone (mm)</u> | <u>Requirement</u> |
|---------------|--------------------------------|-----------------------|-----------------------------|--------------------|
| 001 | Bacillus Subtilis ATCC 6633 | 30°C for 3days | 0 | No inhibition zone |
| | Aspergillus Niger ATCC 6275 | 25°C for 5days | 0 | No inhibition zone |

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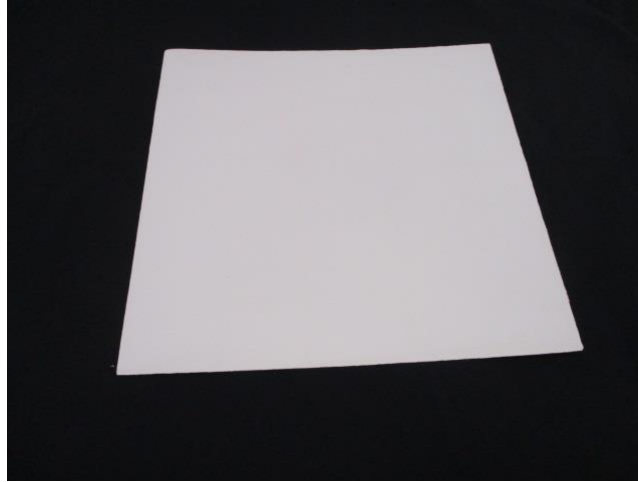
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PRODUCT PHOTO:



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- Retailer Programs.** If you request us to test compliance with retailer, carrier or other third party program ("Retailer") by requesting Services under the Retailer's program, you consent to our disclosure of all associated information, materials, and deliverables to such Retailer and acknowledge that, notwithstanding any terms to the contrary in these Service Terms, the ownership of the deliverables for the Services will be in accordance with the Retailer's program.
- Payment Terms.** You will pay, without set off, our fees and related expenses in accordance with the Quotation including the cost of all taxes, wire or transfer fees, duties, and other fiscal charges which become due on the quoted price and will indemnify us from and against liabilities, incurred as a result of failure to pay any such sums when they become due. We may charge interest at 1% per month (12% per year), or the maximum legal rate if less than 1.0% per month, from the due date until paid fully. You agree to pay reasonable collection costs, including attorneys' fees, if necessary, in the event of late or non-payment.
- Your Requirements.** You are responsible for establishing or selecting all Your Requirements that we will use in performing the Services. We may provide you with assistance in developing Your Requirements that meet your needs, however, in all cases you must review and approve Your Requirements to be used in performing the Services.
- Estimated Schedule and Price.** Any time schedule and pricing terms set forth in this Quotation are estimates only and subject to change upon reasonable notice from us depending upon the specific project.
- On-Site Investigations.** If we perform Services on site at your facilities, or at the facilities of other parties as directed by you; you will ensure that our representatives have safe, secure, and free access to the facilities. Our access will not be conditioned upon the execution of any agreement, waiver, or release. If our representatives are prevented from performing or completing any Services for any reason beyond our reasonable control, we will not be responsible for the nonperformance, and you may be charged for any actual expenses we incur and fees for Services performed.
- Deliverables.** We will provide you with a report outlining: (i) your instructions and request for Services accepted by us, (ii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or report on any facts or circumstances which are outside your specific instructions received and accepted by us.
- Our Findings.** We do not guarantee that our opinions or findings will be recognized or accepted by third parties.
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- Cancellation Fees.** If you cancel or change a Quotation: (i) for an inspection after 3:00 PM of the working day before the scheduled inspection date, we will charge you the Quotation price plus any travel costs incurred before the cancellation; (ii) for testing after we receive the sample(s) at the testing facility, we will charge you cancellation fees according to the amount of actual work performed with a minimum cancellation fee of \$100 USD; or (iii) for a scheduled audit date, you will be responsible for all incurred non-refundable travel costs associate with that audit. Any change or cancellation of an audit that occurs within 7 days of the scheduled audit will be charged a \$600 USD fee in addition to any incurred travel costs.
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- LIMITATION OF LIABILITY.** OUR LIABILITY FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE OF ANY NATURE AND HOWSOEVER ARISING FOR ANY BREACH OF CONTRACT AND/OR ANY FAILURE TO EXERCISE APPROPRIATE SKILL AND CARE BY US WILL UNDER NO CIRCUMSTANCE EXCEED THE FEES RECEIVED FOR THE SPECIFIC SERVICES WHICH GIVE RISE TO SUCH CLAIMS. UNDER NO CIRCUMSTANCE WILL WE HAVE ANY LIABILITY FOR INDIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO: LOSS OF PROFITS, GOODWILL, USE, DATA, FUTURE BUSINESS, OR PRODUCTION; CANCELLATION OF CONTRACTS ENTERED INTO BY YOU; OR OTHER INTANGIBLE LOSSES (EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES). UNDER NO CIRCUMSTANCE WILL WE BE LIABLE TO YOU FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE UNLESS SUCH CLAIM IS BROUGHT UNDER SECTION 24 (DISPUTES) WITHIN TWELVE MONTHS AFTER THE DATE OF THE PERFORMANCE BY US OF THE SERVICES WHICH GIVE RISE TO THE CLAIM OR, IN THE EVENT OF ANY ALLEGED NON-PERFORMANCE, WITHIN TWELVE MONTHS OF THE DATE WHEN SUCH SERVICES SHOULD HAVE BEEN COMPLETED.
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- Termination and Notice.** These Terms and Conditions will continue in effect until terminated by either party upon thirty days written notice or, in the event of your breach of these Terms and Conditions, immediately upon receipt of written notice to you. You will pay those fees and expenses incurred by us prior to termination. Notice to either party may be made by hand delivery, courier service, mail, facsimile, or e-mail transmission at the receiving party's designated principal place of business. Notice to us must be sent both to: UL Verification Services Pte. Ltd, Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253 with a copy to UL LLC, Attn.: General Counsel at 333 Pfingsten Road, Northbrook, Illinois 60062. Notice will be effective upon receipt.
- Governing Law:** These Terms and Conditions will be governed and interpreted by the laws of the State of Illinois, United States of America, except if: (i) UL Contracting Party's principal place of business is Asia, Australia, or New Zealand, then Singapore law, and (ii) UL Contracting Party's principal place of business is Europe, then Swiss law, without reference to the applicable jurisdiction's choice of law principles.
- Disputes.** Any dispute or disagreement, other than nonpayment of fees, relating to these Terms and Conditions or the Services, will be settled by confidential, binding arbitration administered by the International Centre for Dispute Resolution of the American Arbitration Association ("AAA") pursuant to the AAA Commercial Arbitration Rules and the Procedures for Large, Complex Commercial Disputes. The arbitration venue will be Chicago, Illinois, except if: (i) UL Contracting Party's principal place of business is in Europe, the venue will be Geneva, Switzerland, and (ii) UL Contracting Party's principal place of business is in Asia, Australia, or New Zealand, the venue will be Singapore, Republic of Singapore. The arbitration will be conducted before a panel of three (3) arbitrators. The arbitration panel will be selected as follows: the parties will request a list of ten (10) arbitrators drawn from the AAA's panel of commercial arbitrators (who are experienced in and familiar with the AAA's Procedures for Large, Complex Commercial Disputes). From this list, both parties will each choose one arbitrator. After they have been notified of their panel selection, the two (2) arbitrators will agree on a third arbitrator from the list of ten (10), who will be the chair of the panel, and the panel will be final. The decision of the majority of the arbitrators will be the panel's decision. The arbitrators will not have the authority to add, change, or disregard any term of these Terms and Conditions to award incidental, consequential, or punitive damages (including, but not limited to, loss of use, unjust enrichment, and/or lost profits), or exceed the remedies provided by the limitation of liability of these Terms and Conditions. The panel's decision will be binding and judgment on the arbitration award may be entered by a court of competent jurisdiction. Arbitration will be the final remedy for any dispute between the parties arising out of these Terms and Conditions, provided, however, that nothing herein will prevent either party from seeking a court order for injunctive relief (in addition to other remedies) to stop or prevent misuse or misappropriation of its marks, confidential or proprietary information, or infringement of its intellectual property, in a court of law. All arbitrations will be conducted in English.
- Severability.** If any section of these Terms and Conditions is held invalid, void, or unenforceable for any reason that section will be severed, and all other sections of these Terms and Conditions will remain valid to the extent permissible under law.
- Modifications.** These Terms and Conditions are the entire and complete agreement between the parties and supersede any other communications, representations, or agreements with respect to its subject matter. Under no circumstances will any preprinted, additional, or different terms and conditions on your requests for quotation, purchase orders, invoices, sales or marketing materials, emails, any acceptance communications, or other business documents apply to any Services or Quotation or bind us in any manner. Modifications that have not been made by us or that have not been accepted by us in a written or emailed confirmation from us are not accepted by us, and commencement of performance will not signify acceptance by us of any such modifications. Any such modifications are excluded from our agreement, and such modifications will not be a binding agreement on us.
- Order of Precedence.** Except for conflicts with Section 2 (Payment Terms), Section 4 (Estimated Schedule and Price) and Section 9 (Cancellation Fees), these Terms and Conditions will take precedence over any conflicting terms in any Quotation.
- Electronic Signature.** These Terms and Conditions may be executed and delivered by facsimile, PDF, or by means of other electronic signature. Our electronic, digital, or hard copies of these Terms and Conditions, your acceptance, and Quotations as signed, or otherwise accepted, by you will be the true, complete, valid, authentic, and enforceable copies of these documents. You agree that you will not contest the admissibility or enforceability of our copies in a court or any proceeding arising out of such documents.
- Force Majeure.** Neither party will be liable for any failure or delay in the performance of its obligations due to fire, flood, earthquake, elements of nature, or acts of God, acts of war, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default or delay: (i) could not have been prevented by reasonable precautions; (ii) cannot reasonably be circumvented; (iii) and the party hindered or delayed immediately notifies the other party describing the circumstance causing delay.