

## Test Report

No. SHAEC2206542709

Date: 21 Jul 2022

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Client Name : YIBIN PAPER INDUSTRY CO.,LTD

Client Address : Pei Shi light Industrial park, Nanxi District, Yibin City, Sichuan province

Sample Name : All bamboo pulp natural color food packaging base paper  
The above sample(s) and information were provided by the client.

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SGS Job No. : CQ10011392 - CQ  
Date of Sample Received : 17 Jun 2022  
Testing Period : 17 Jun 2022 - 04 Jul 2022  
Test Requested : Selected test(s) as requested by the client.  
Test Method(s) : Please refer to next page(s).  
Test Result(s) : Please refer to next page(s).



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Result Summary :

Test Requested	Conclusion
Paper and board used in food contact materials and articles, EDQM-Fastness of fluorescent whitened paper and board	PASS
Paper and board used in food contact materials and articles, EDQM-Colour Fastness	PASS
Paper and board used in food contact materials and articles, EDQM-Overall migration	PASS
Paper and board used in food contact materials and articles, EDQM-Fastness of fluorescent whitened paper and board	PASS
Paper and board used in food contact materials and articles, EDQM-Colour Fastness	PASS
Paper and board used in food contact materials and articles, EDQM-Transfer of antimicrobial agents	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of Lead	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of primary aromatic amine (total)	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of primary aromatic amine	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of phthalates	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of bisphenol A(BPA)	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of benzophenone, 2-methylbenzophenone, 3-methylbenzophenone and 4-methylbenzophenone	PASS
Paper and board used in food contact materials and articles, EDQM-4,4'-Bis(dimethyl-amino) benzophenone (Michler's Ketone)	PASS



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Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

*Jenny Lan*

Jenny Lan  
Approved Signatory



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center - China Head Office

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA22-065427.003	Brown paper	Paper

Remarks :

- (1) mg/dm<sup>2</sup> = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected ( < MDL)

### Paper and board used in food contact materials and articles, EDQM-Fastness of fluorescent whitened paper and board

Test Method : With reference to EN 648: 2018.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003 Migration</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	24 hr(s)	23±2°C	★	Grade 5	PASS
Alkaline salt solution	24 hr(s)	23±2°C	★	Grade 5	PASS

Notes :

- (1) ★= Grade 5
- (2) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

### Paper and board used in food contact materials and articles, EDQM-Colour Fastness

Test Method : With reference to EN 646: 2018.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	24 hr	23±2°C	★	Grade 5	PASS
Alkaline salt solution	24 hr	23±2°C	★	Grade 5	PASS

Notes :



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(1) ★= Grade 5

(2) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

### Paper and board used in food contact materials and articles, EDQM-Overall migration

Test Method : With reference to EN1186-1:2002 for selection of conditions and test method;  
EN 1186-13: 2002 Method B -adsorption by modified polyphenylene oxide.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 003</u> <u>Overall migration</u>	<u>Conclusion</u>
Poly(2,6-diphenyl-p-phenylene oxide)(MPPO)	4.0hr(s)	100°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	PASS

Notes :

- (1) Test condition & simulant were specified by client.
- (2) Report the first migration result.

### Paper and board used in food contact materials and articles, EDQM-Fastness of fluorescent whitened paper and board

Test Method : With reference to EN 648: 2018.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 003</u>	<u>Conclusion</u>
Deionized water	30 min	90±3°C	★	Grade 5	PASS
Rectified olive oil	30 min	120±3°C	★	Grade 5	PASS

Notes :

- (1) ★=Grade 5
- (2) Grey scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

### Paper and board used in food contact materials and articles, EDQM-Colour Fastness

Test Method : With reference to EN 646: 2018.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 003</u>	<u>Conclusion</u>
Rectified olive oil	30 min	120±3°C	★	Grade 5 等级5	PASS
Deionized water	30 min	90±3°C	★	Grade 5	PASS

Notes :

- (1) ★=Grade 5
- (2) Grey scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



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**Paper and board used in food contact materials and articles, EDQM-Transfer of antimicrobial agents**

Test Method : With reference to EN 1104: 2018

<u>Test Item(s)</u>	<u>Limit</u>	<u>003</u>
Bacillus subtilis ATCC No. 6633	★	Absent
Aspergillus niger ATCC No.6275	★	Absent
<b>Conclusion</b>		<b>PASS</b>

Notes :

- (1) ★ = Absence of zone inhibition
- (2) Absent denotes absence of Antimicrobial constituents which inhibits the growth of tested bacteria and fungus

**Paper and board used in food contact materials and articles, EDQM-Specific migration of Lead**

Test Method : With reference to EN 13130-1:2004, analysis was performed by ICP-MS.

**Sample 003**

Simulant Used : 3% Acetic acid (W/V) aqueous solution  
 Test Condition : 100 °C 24.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Lead(Pb)	ND	mg/kg	0.01	ND
<b>Conclusion</b>				<b>PASS</b>

Notes :

- (1) Test condition & simulant were specified by client.

**Paper and board used in food contact materials and articles, EDQM-Specific migration of primary aromatic amine (total)**

Test Method : With reference to EN 13130-1: 2004, analysis was performed by UV-Vis.

**Sample 003**

Simulant Used : 3% Acetic acid (W/V) aqueous solution  
 Test Condition : 100 °C 24.0 hr(s)

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<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
<b>Conclusion</b>				<b>PASS</b>

Notes :

(1) Test condition & simulant were specified by client.

**Paper and board used in food contact materials and articles, EDQM-Specific migration of primary aromatic amine**

Test Method : With reference to EN 13130-1: 2004, analysis was performed by LC-MS-MS.

**Sample 003**

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 100 °C 24.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
2,4,5-Trimethylaniline(2,4,5-TMA)	0.002	mg/kg	0.002	ND
2,4-Toluediamine(2,4-TDA)	0.002	mg/kg	0.002	ND
2-Methoxy-5-Methylaniline(2-M-5-MA)	0.002	mg/kg	0.002	ND
3,3'-Dimethylbenzidine(3,3'-DMB)	0.002	mg/kg	0.002	ND
4,4'-Diaminodiphenylether(4,4'-DPE)	0.002	mg/kg	0.002	ND
4,4'-Methylenedianiline(4,4'-MDA)	0.002	mg/kg	0.002	ND
4,4'-Methylenedi-o-toluidine(4,4'-MDoT)	0.002	mg/kg	0.002	ND
4-Aminobiphenyl(4-ABP)	0.002	mg/kg	0.002	ND
4-Chloro-Aniline(4-CA)	0.002	mg/kg	0.002	ND
4-Chloro-o-Toluidine(4-CoT)	0.002	mg/kg	0.002	ND
4-Methoxy-mphenylenediamine(4-M-mPDA)	0.002	mg/kg	0.002	ND
Benzidine(BNZ)	0.002	mg/kg	0.002	ND
o-Anisidine(o-ASD)	0.002	mg/kg	0.002	ND
o-Toluidine(o-T)	0.002	mg/kg	0.002	ND
1,3-phenylenediamine	0.002	mg/kg	0.002	ND
2-naphthylamine	0.002	mg/kg	0.002	ND
o-aminoazotoluene	0.002	mg/kg	0.002	ND



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2-Amino-4-nitrotoluene	0.002	mg/kg	0.002	ND
3,3'-dichlorobenzidine	0.002	mg/kg	0.002	ND
3,3'-dimethoxybenzidine	0.002	mg/kg	0.002	ND
4,4'-methylene-bis-(2-chloro-aniline)	0.002	mg/kg	0.002	ND
4,4'-thiodianiline	0.002	mg/kg	0.002	ND
4-amino azobenzene	0.002	mg/kg	0.002	ND
1,3-Diiminoisindoline	-	mg/kg	0.01	ND
3-Anisidine	-	mg/kg	0.002	ND
2-Amino-1-naphthalinesulfonic acid	-	mg/kg	0.005	ND
2-Ethoxyaniline	-	mg/kg	0.005	ND
5-Chloro-2-methoxyaniline	-	mg/kg	0.005	ND
2-Chloraniline	-	mg/kg	0.01	ND
4-Toluidine	-	mg/kg	0.002	ND
1,4-Phenylenediamine	-	mg/kg	0.002	ND
3-Chloroaniline	-	mg/kg	0.01	ND
3-Toluidine	-	mg/kg	0.002	ND
3-Amino-4-methoxybenzanilide	-	mg/kg	0.002	ND
2-Chloro-4-nitroaniline	-	mg/kg	0.005	ND
4-Chlor-3-methoxyaniline	-	mg/kg	0.005	ND
4-Ethoxyaniline	-	mg/kg	0.002	ND
3-Amino-4-methylbenzamide	-	mg/kg	0.002	ND
1,5-Diaminonaphthalene	-	mg/kg	0.002	ND
4-Aminobenzamide	-	mg/kg	0.005	ND
Aniline	-	mg/kg	0.002	ND
4-Chlor-2,5-dimethoxyaniline	-	mg/kg	0.005	ND
2,4,5-Trichloroaniline	-	mg/kg	0.01	ND
5-Amino-6-methylbenzimidazolone	-	mg/kg	0.005	ND
2,6- Diaminotoluene	-	mg/kg	0.002	ND
2,6-Dimethylaniline (2,6-DMA)	-	mg/kg	0.002	ND
4-Aminotoluene-3-sulfonic acid	-	mg/kg	0.005	ND
1,2-Phenylenediamine	-	mg/kg	0.002	ND
2,4-Dimethylaniline (2,4-DMA)	-	mg/kg	0.002	ND
5-Chloro-2-methylaniline	-	mg/kg	0.005	ND
2,5-Dichloroaniline	-	mg/kg	0.01	ND
2,4-Dinitroaniline	-	mg/kg	0.005	ND
2-Methoxy-4-nitroaniline	-	mg/kg	0.005	ND
p-Anisidine	-	mg/kg	0.002	ND
Dimethyl aminoterephthalate	-	mg/kg	0.002	ND
3,4-dichloroaniline	-	mg/kg	0.002	ND
1-Naphthylamine	-	mg/kg	0.002	ND



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2-Aminobiphenyl	-	mg/kg	0.002	ND
Butyl Anthranilate	-	mg/kg	0.002	ND
2,4-Diaminodiphenylmethane	-	mg/kg	0.002	ND
2-Amino-5-methylbenzoic acid	-	mg/kg	0.002	ND
Total	0.01	mg/kg	-	ND

### Conclusion

**PASS**

### Notes :

(1) Test condition & simulant were specified by client.

### Paper and board used in food contact materials and articles, EDQM-Specific migration of phthalates

Test Method : With reference to EN 15519:2007, analysis was performed by GC-MS.  
95% Ethanol, 60 °C 2 hours

Test Item(s)	CAS NO.	Limit	Unit	MDL	003
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND
Dibutyl Phthalate(DBP)	84-74-2	-	mg/kg	0.05	ND
Diisobutyl Phthalate(DIBP)	84-69-5	-	mg/kg	0.05	ND
Dibutyl phthalate(DBP)+ Diisobutyl Phthalates (DIBP)	-	0.3	mg/kg	-	ND

### Conclusion

**PASS**

### Paper and board used in food contact materials and articles, EDQM-Specific migration of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene

Test Method : With reference to EN 15519:2007, analysis was performed by GC-MS.  
95% Ethanol, 60 °C 2 hours

Test Item(s)	CAS NO.	Limit	Unit	MDL	003
Benzo(a)pyrene(BaP)	50-32-8	-	mg/kg	0.001	ND
Benzo(a)anthracene(BaA)	56-55-3	-	mg/kg	0.001	ND
Benzo(b)fluoranthene(BbF)	205-99-2	-	mg/kg	0.001	ND
Chrysene(CHR)	218-01-9	-	mg/kg	0.001	ND
Sum of above	-	0.001	mg/kg	-	ND

### Conclusion

**PASS**

### Paper and board used in food contact materials and articles, EDQM-Specific migration of bisphenol A(BPA)

Test Method : With reference to EN15519:2007, analysis was performed by LC-MS and LC-MS-MS.  
95% Ethanol, 60 °C 2 hours



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# Test Report

No. SHAEC2206542709

Date: 21 Jul 2022

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Specific migration of bisphenol A	0.05	mg/kg	0.01	ND
<b>Conclusion</b>				<b>PASS</b>

**Paper and board used in food contact materials and articles, EDQM-Specific migration of benzophenone, 2-methylbenzophenone, 3-methylbenzophenone and 4-methylbenzophenone**

Test Method : With reference to EN15519:2007, analysis was performed by GC-MS.  
95% Ethanol, 60 °C 2 hours

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
2-methylbenzophenone	-	mg/kg	0.01	ND
3-methylbenzophenone	-	mg/kg	0.01	ND
4-methylbenzophenone	-	mg/kg	0.01	ND
Sum of 3 items above	0.05	mg/kg	-	ND
Benzophenone	-	mg/kg	0.01	ND
Sum of 4 items above	0.6	mg/kg	-	ND
<b>Conclusion</b>				<b>PASS</b>

**Paper and board used in food contact materials and articles, EDQM-4,4'-Bis(dimethyl-amino) benzophenone (Michler's Ketone)**

Test Method : With reference to EN15519:2007, analysis was performed by GC-MS.  
95% Ethanol, 60 °C 2 hours

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
4,4'-Bis(dimethyl-amino) benzophenone	ND	mg/kg	0.01	ND
<b>Conclusion</b>				<b>PASS</b>

Results & photo(s) of this report refer to test report SHAEC2206542705.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (  $w=0$  ) stated in ILAC-G8:09/2019.



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