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.

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
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Jenny Lan
Approved Signatory

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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/dm² = milligram per square decimeter
(2) mg/kg = milligram per kilogram
(3) ℃= 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.

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

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

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 003 Overall migration	Conclusion
Poly(2,6-diphenyl-p-phenylene oxide)(MPPO)	4.0hr(s)	100℃	10mg/dm²	<3.0mg/dm²	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.

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 003	Conclusion
Deionized water	30 min	90±3℃	★	Grade 5	PASS
Rectified olive oil	30 min	120±3℃	★	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.

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

Test Item(s)	Limit	*003*
Bacillus subtilis ATCC No. 6633	★	Absent
Aspergillus niger ATCC No.6275	★	Absent
Conclusion		**PASS**

Notes :

(1) ★ = Absence of zone inhibition

(2) Absent denotes absence of Antimicrobic 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 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm^2/kg	-	6.0
Lead(Pb)	ND	mg/kg	0.01	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 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 ℃ 24.0 hr(s)

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm²/kg	-	6.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	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 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 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm²/kg	-	6.0
2,4,5-Trimethylaniline(2,4,5-TMA)	0.002	mg/kg	0.002	ND
2,4-Toluenediamine(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-Diiminoisoindoline	-	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-methoxylaniline	-	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-Phenylendiamine	-	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 ℃ 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 ℃ 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 ℃ 2 hours

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

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 ℃ 2 hours

Test Item(s)	Limit	Unit	MDL	003
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
Conclusion				**PASS**

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 ℃ 2 hours

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

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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Sample photo:



SHA22-065427.003

SGS authenticate the photo on original report only

*** End of Report ***

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