

ZHEJIANG ZHONGXIN ENVIRONMENTAL PROTECTION TECHNOLOGY GROUP CO.LTD
NO.1 YONGSHENG ROAD,YONGCHANG DISTRICT,LANXI CITY,ZHEJIANG PROVINCE

Sample Description : FLUORINE-FREE WHITE PULP LOCK BOX
Item No. : FLUORINE-FREE WHITE PULP LOCK BOX

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Aug 05, 2022
Test Performing Date : Aug 05, 2022 to Aug 22, 2022
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Shiny Hu
Authorized Signatory



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Hierolines

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I . SGS Ref No.: CANHG2216921501

Result Summary :

Test Requested	Conclusion
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Fastness of fluorescent whitened paper and board	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments –Sensorial examination odour and taste test	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Specific migration of Benzophenone and 4-methylbenzophenone	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation -Extractable Primary Aromatic Amine	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation – Extractable formaldehyde	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation – Extractable heavy metals	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation-Extractable Glyoxal	PASS



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN22-169215.001	White paper box	Paper

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Fastness of fluorescent whitened paper and board

Test Method : With reference to EN 648:2018, analysis was performed by UV lamp.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001</u>	<u>Comment</u>
Rectified Olive Oil	30min(s)	120±3℃	★	Grade 5	PASS

Notes :

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

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test

Test Method : With reference to DIN10955:2004,direct contact method.
No.of panelist:6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Test media	-	Distilled water
Test Temperature (°C)	-	70
Test time (hr)	-	2
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0
Comment		PASS



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Notes :

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation—Specific migration of Benzophenone and 4-methylbenzophenone

Test Method : With reference to EN13130-1:2004, analysis was performed by GC-MS.

Sample 001

Simulant Used : Rectified olive oil

Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm ² /kg	-	4.0
Specific migration of Benzophenone	0.6	mg/kg	0.2	ND
Specific migration of 4-methylbenzophenone	0.2	mg/kg	0.2	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation -Extractable Primary Aromatic Amine

Test Method : With reference to EN 647:1993 (hot water extraction) . Analysis was performed by LC-MS/MS.



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Sample 001

Test Item(s)	CAS NO.	Max. Permissible Limit	Unit	MDL	Test result
2-Anisidine	90-04-0	0.002	mg/kg	0.002	ND
4,4'-Benzidine	92-87-5	0.002	mg/kg	0.002	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.002	mg/kg	0.002	ND
4,4'-Diaminodiphenylmethane	101-77-9	0.002	mg/kg	0.002	ND
4,4'-Oxydianiline	101-80-4	0.002	mg/kg	0.002	ND
4-Chloroaniline	106-47-8	0.002	mg/kg	0.002	ND
3,3'-Dimethoxybenzidine	119-90-4	0.002	mg/kg	0.002	ND
3,3'-Dimethylbenzidine	119-93-7	0.002	mg/kg	0.002	ND
2-Methoxy-5-methylaniline	120-71-8	0.002	mg/kg	0.002	ND
2,4,5-Trimethylaniline	137-17-7	0.002	mg/kg	0.002	ND
4,4'-Thiodianiline	139-65-1	0.002	mg/kg	0.002	ND
4-Aminoazobenzene	60-09-3	0.002	mg/kg	0.002	ND
2,4-Diaminoanisole	615-05-4	0.002	mg/kg	0.002	ND
4,4'-Diamino-3,3'-dimethyldiphenyl methane	838-88-0	0.002	mg/kg	0.002	ND
2-Naphthylamine	91-59-8	0.002	mg/kg	0.002	ND
3,3'-Dichlorobenzidine	91-94-1	0.002	mg/kg	0.002	ND
4-Aminobiphenyl	92-67-1	0.002	mg/kg	0.002	ND
2-Toluidine	95-53-4	0.002	mg/kg	0.002	ND
4-Chloro-2-methylaniline	95-69-2	0.002	mg/kg	0.002	ND
2,4-Diaminotoluene	95-80-7	0.002	mg/kg	0.002	ND
2-Aminoazotoluene	97-56-3	0.002	mg/kg	0.002	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND
2-Chloroaniline	95-51-2	-	mg/kg	0.010	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND
3-Amino-4-methoxybenzanilide	120-35-4	-	mg/kg	0.002	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND
4-Chloro-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND



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4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND
Aniline	62-53-3	-	mg/kg	0.002	ND
4-Chloro-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND
5-Amino-6-methylbenzimidazolone	67014-36-2	-	mg/kg	0.005	ND
2,6- Diaminotoluene	823-40-5	-	mg/kg	0.002	ND
2,6-Dimethylaniline	87-62-7	-	mg/kg	0.002	ND
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND
1,2-Phenylenediamine	95-54-5	-	mg/kg	0.002	ND
2,4-Dimethylaniline	95-68-1	-	mg/kg	0.002	ND
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND
2-Amino-4-nitrotoluene	99-55-8	-	mg/kg	0.002	ND
p-Anisidine	104-94-9	-	mg/kg	0.002	ND
1,3-phenylenediamine	108-45-2	-	mg/kg	0.002	ND
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND
3,4-dichloroaniline	95-76-1	-	mg/kg	0.002	ND
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND
Butyl Anthranilate	7756-96-9	-	mg/kg	0.002	ND
2,4-Diaminodiphenylmethane	1208-52-2	-	mg/kg	0.002	ND
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND
Total		0.01	mg/kg	-	ND

Comment

PASS

Notes :

- 1.mg/kg = milligram per kilogram of foodstuff in contact with
- 2.MDL=Method Detection Limit
- 3.ND = Not Detected
- 4.Test condition & simulant were specified by client.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation– Extractable formaldehyde

Test Method : With reference to BS EN 1541: 2001 & BS EN 647: 1994, analysis was performed by UV-Vis

Sample 001

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Extractable Formaldehyde	1	mg/dm ²	0.1	ND
Comment				PASS

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation– Extractable heavy metals

Test Method : With reference to EN647:1993 (hot water extraction), analysis was performed by ICP-MS and LC-ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable Aluminum	1000	µg/L	100	260
Extractable Cadmium	5	µg/L	2	ND
Extractable Lead	10	µg/L	5	ND
Extractable Chromium (VI)	Absent	mg/dm ²	0.004	ND
Extractable Chromium (III)	0.004	mg/dm ²	0.004	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram
2. mg/dm² = milligram per square decimeter
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)
5. Extractable Chromium (III)= Extractable Total Chromium- Extractable Chromium (VI)
6. Permissible Limit is according to BfR Recommendation XXXVI.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation-Extractable Glyoxal

Test Method : With reference to DIN 54603:2008, analysis was performed by UV- Vis.

Test Item(s)	Limit	Unit	MDL	001
Extractable Glyoxal	1.5	mg/dm ²	0.5	ND
Comment				PASS

Notes :

1. mg/dm² =milligram per square decimeter
2. MDL=Method Detection Limit
3. ND = Not Detected(less than MDL)

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.

Sample photo:



CAN22-169215.001



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II. SGS Ref No.: GZF22-027027-02

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Sample Description :

Specimen No.	SGS Sample ID	Description
1	GZF22-027027.002	Paper product

Test Result(s) :

Test Requested : In accordance with Council of Europe Resolution AP (2002)1-on paper and board materials and

articles intended to come into contact with foodstuffs.

For material: Paper - Determination of transfer of antimicrobial constituents.

Test Method : EN 1104:2018: Paper and board intended to come into contact with foodstuffs-Determination of the transfer of antimicrobial constituents

GZF22-027027.002

Test organism(s)	Concentration of spores	Inhibition zone
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Aspergillus niger ATCC 6275	1.0x10 ⁵ conidia/ml Agar	0mm
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Bacillus subtilis ATCC 6633	1.0x10 ⁴ spores/ml Agar	0mm
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Test organism(s)	Incubate time(days)	Result
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Aspergillus niger ATCC 6275	5	No transfer of antimicrobial constituents
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Bacillus subtilis ATCC 6633	3	No transfer of antimicrobial constituents
--------------------------------	---	---

Notes :

Test the concave side.



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Sample photo:



GZF22-027027.002

III. SGS Ref No.: SHAHG2211623902

This test was subcontracted to SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Result Summary :

Test Requested

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation- Extractable 1,3-Dichloro-2-propanol(DCP) and 3-monochloro-1,2-propanediol(3-MCPD)

Conclusion

PASS

Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA22-116239.001	White paper box	Paper



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Remarks :

- (1) mg/dm² = 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)

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation- Extractable 1,3-Dichloro-2-propanol(DCP) and 3-monochloro-1,2-propanediol(3-MCPD)

Test Method : With reference to EN 645:1993 (cold water extraction) and ASU § 35 LMBG B 80.56-2:2004, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Extractable 1,3-Dichloro-2-propanol(DCP)	2	µg/L	2	ND
Extractable 3-monochloro-1,2-propanediol(3-MCPD)	12	µg/L	2	ND

Conclusion **PASS**

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.

Sample photo:



SHA22-116239.001
 End of Report



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