

GEOTEGRITY ECO PACK (XIAMEN) CO.,LTD
NO.523 JIAN ROAD,TONG'AN INDUSTRIAL ZONE, XIAMEN,FUJIAN,China

Sample Description : SUGARCANE BAGASSE TABLEWARES
Client Reference Information : STYLE NO: P031/P030/L014/B036/T034 9" ROUND PLATE/10"
SQUARE PLATE/12.5"X10" OVAL PLATE/32OZ BOWL/8"X8"
CLAMSHELL/7"X5.3" MEAT TRAY
Item No. : P013
Manufacturer : GEOTEGRITY ECO PACK (XIAMEN) CO.,LTD
Supplier : XIAMEN TARGET TRADE CO.,LTD
Country of Origin : CHINA

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 : Sep 03, 2021
Test Performing Date : Sep 03, 2021 to Sep 22, 2021
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. Xiamen Branch



Beck Hong
Authorized Signatory

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Part 1: SGS Ref. No. is CANHG2116718701. This test was subcontracted to Guangzhou Branch, SGS-CSTC Co., Ltd.

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 Glyoxal	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

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN21-167187.001	White plate	bagasse

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.

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001	Comment
3% Acetic acid (W/V) aqueous solution	10min(s)	23±2°C	★	Grade 5	PASS
Rectified Olive Oil	10min(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.

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

Test Item(s)	Limit	001
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)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm ² /kg	-	6.0
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 645 :1993 (cold water extraction) and BfR Recommendation XXI. Analysis was performed by LC-MS/MS.

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Sample 001

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
					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

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2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND
4-Chloro-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND
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

- 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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Date: Sep 22 2021

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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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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)

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 EN1541:2001 & EN645:1993 (cold water extraction), analysis was performed by UV- Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable Formaldehyde	1	mg/dm ²	0.1	ND
Comment	PASS			

Notes :

1. mg/dm² = milligram per square decimeter
2. MDL=Method Detection Limit
3. 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 heavy metals



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Test Report

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Date: Sep 22 2021

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Test Method : With reference to EN645:1993 (cold water extraction), analysis was performed by ICP-MS and LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	001
Extractable Aluminum	1000	µg/L	100	ND
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. The result of Chromium (VI) and Chromium (III) are considered as “Not Detected” since the total chromium content determined is “Not Detected” .

Remark:Test condition & simulant were specified by client.

Remark: Limit = Reference limit.

Sample photo:



CANHG2116718701

CAN21-167187.001



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Part 2: SGS Ref. No. is GZF21 025443 01; XMF21-007713.001.Sample Description :

Specimen No.	SGS Sample ID.	Description
1.	GZF21-025443.001	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

GZF21-025443.001

Test organism(s)	Concentration of spores	Inhibition zone
Aspergillus niger ATCC 6275	1.0x 10 ⁵ conidia/mL Agar	0mm
Bacillus subtilis ATCC 6633	1.0x 10 ⁴ spores/mL Agar	0mm

Test organism(s)	Incubate time(days)	Result
Aspergillus niger ATCC 6275	5	No transfer of antimicrobial constituents
Bacillus subtilis ATCC 6633	3	No transfer of antimicrobial constituents

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Sample photo:

GZF21-025443.001



Product photo – provide by client

Remark: According to client's statements the tested samples are used in their products shown in the product photos.

End of Report

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