

Test Report

No. SHAFD1806484102 A01

Date: 20 Sep 2018

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GeoTegrity ECO Pack(Xiamen)Co.,Ltd

523 Ji'An Road,Tongan Industrial Zone Xiamen City,Fujian Province,China

THIS REPORT IS TO SUPERSEDE TEST REPORT No.SHAFD1806484101, DATE:2018/04/19.

The following sample(s) was/were submitted and identified on behalf of the clients as : Sugarcane bagasse plates

SGS Job No. : XMAFF180400683 ASH18-013652 - SH
 Manufacturer : GeoTegrity ECO Pack(Xiamen)Co.,Ltd
 Date of Sample Received : 03 Apr 2018
 Testing Period : 03 Apr 2018 - 19 Apr 2018
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).



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Result Summary :

Test Requested	Conclusion
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation-Optical brighteners	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Sensorial examination odour and taste test	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation- Preserving effect	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation-Specific migration of benzophenone	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation- Specific migration of 4-methylbenzophenone	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable heavy metals	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable primary aromatic amine	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable formaldehyde	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable glyoxal	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation -Pentachlorophenol (PCP)	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Azo dyes	PASS



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

Dora Hu

Dora Hu
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA18-064841.001	White paper plate	Paper

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, Council of Europe Resolution AP (2002) 1 and BfR recommendation-Optical brighteners

Test Method : With reference to EN 648:2006.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	10 min(s)	23±2°C	★	Grade 5	PASS
Rectified olive oil	10 min(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.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Sensorial examination odour and taste test

Test Method : With reference to DIN 10955:2004

Test media:

No. of panelist: 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Test time (hr(s))	-	2
Temperature(°C)	-	70
Sensorial examination odour (Point scale)	2.5	0



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Test Item(s)	Limit	001
Sensorial examination taste (Point scale)	2.5	0
Conclusion		PASS

Notes :

Intensity scale (rounded at 0.5):

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

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation- Preserving effect

Test Method : With reference to EN 1104:2005.

Test Item(s)	Limit	001
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 Antimicrobial constituents which inhibits the growth of tested bacteria and fungus.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation-Specific migration of benzophenone

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

Sample 001

Simulant Used : Rectified olive oil
Test Condition : 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0



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Specific migration of benzophenone

0.6

mg/kg

0.2

ND

Conclusion
PASS

Notes :

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

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation- Specific migration of 4-methylbenzophenone

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

Sample 001

Simulant Used : Rectified olive oil

Test Condition : 70 °C 2.0 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 ² /kg	-	6.0
Specific migration of 4-methylbenzophenone	0.2	mg/kg	0.2	ND
Conclusion				PASS

Notes :

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

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable heavy metals

Test Method : With reference to EN 645:1993 (cold water extraction), analysis was performed by UV-Vis and ICP-OES / ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable lead	10	mg/kg	0.1	ND
Extractable cadmium	5	mg/kg	0.05	ND
Extractable mercury	0.3	mg/kg	0.05	ND
Extractable chromium (III)	0.004	mg/dm ²	0.004	ND
Extractable chromium (VI)	★	mg/dm ²	0.004	ND
Conclusion				PASS

Notes :



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(1) ★= Absent

(2) Permissible Limit is according to BfR Recommendation XXXVI.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 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 UV-Vis.

Test Item(s)	Limit	Unit	MDL	001
Extractable primary aromatic amine	0.002	mg/kg	0.002	ND
Conclusion				PASS

Notes :

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

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable formaldehyde

Test Method : With reference to EN 645:1994 (cold water extraction) and EN 1541:2001, analysis was performed by UV-Vis.

Test Item(s)	Limit	Unit	MDL	001
Extractable formaldehyde	1	mg/dm ²	0.1	ND
Conclusion				PASS

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable glyoxal

Test Method : With reference to DIN 54603-2008.

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



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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation -Pentachlorophenol (PCP)

Test Method : With reference to LFGB § 64 BVL B 82.02.8-2001, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Pentachlorophenol (PCP)	0.15	mg/kg	0.05	ND
Conclusion				PASS

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Azo dyes

Test Method : With reference to § 64 LFGB BVL B 82.02.2:2013, analysis was performed by GC-MS/HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
4-Aminobiphenyl	92-67-1	★	mg/kg	5	ND
Benzidine	92-87-5	★	mg/kg	5	ND
4-chloro-o-toluidine	95-69-2	★	mg/kg	5	ND
2-naphthylamine	91-59-8	★	mg/kg	5	ND
o-aminoazotoluene	97-56-3	★	mg/kg	5	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	★	mg/kg	5	ND
4-chloroaniline	106-47-8	★	mg/kg	5	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	★	mg/kg	5	ND
4,4'-diaminodiphenylmethane	101-77-9	★	mg/kg	5	ND
3,3'-dichlorobenzidine	91-94-1	★	mg/kg	5	ND
3,3'-dimethoxybenzidine	119-90-4	★	mg/kg	5	ND
3,3'-dimethylbenzidine	119-93-7	★	mg/kg	5	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane / 4,4'-methylenedi-o-toluidine	838-88-0	★	mg/kg	5	ND
p-cresidine	120-71-8	★	mg/kg	5	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	★	mg/kg	5	ND
4,4'-oxydianiline	101-80-4	★	mg/kg	5	ND
4,4'-thiodianiline	139-65-1	★	mg/kg	5	ND
o-toluidine	95-53-4	★	mg/kg	5	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	★	mg/kg	5	ND



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Test Item(s)	CAS NO.	Limit	Unit	MDL	001
2,4,5-trimethylaniline	137-17-7	★	mg/kg	5	ND
4-aminoazobenzene	60-09-3	★	mg/kg	5	ND
O-Anisidine	90-04-0	★	mg/kg	5	ND
Conclusion					PASS

Notes :

- (1) ★=Prohibited
- (2) Permissible Limit is according to BfR Recommendation XXXVI.
- (3) The § 64 LFGB BVL B 82.02-2:2013 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of § 64 LFGB BVL B 82.02-15:2013 will be employed to verify the presence of 4-aminoazobenzene.
- (4) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- (5) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (6) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.
- (7) These tests were subcontracted to SGS Ningbo Chemical Lab.



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