

***** Technology Co.,Ltd.

The following sample(s) was/were submitted and identified on behalf of the clients as : disposable environmental protection paper pulp tableware

SGS Job No. : O-SHAFL201800700303 ASH18-064297 - SH
Manufacturer : ***** Technology Co.,Ltd.
Client Ref. Information : Production Date:2018.12
Date of Sample Received : 24 Dec 2018
Testing Period : 24 Dec 2018 - 10 Jan 2019
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-Fastness of fluorescent whitened paper and board	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



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Test Report

No. SHAFD1828566101

Date: 10 Jan 2019

Page 3 of 8

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	SHA18-285661.001	White paper pulp tableware	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-Fastness of fluorescent whitened paper and board

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: Distilled water
 No. of panelist: 6



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Test Report

No. SHAFD1828566101

Date: 10 Jan 2019

Page 5 of 8

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Test time (hr(s))	-	1
Temperature(°C)	-	100
Sensorial examination odour (Point scale)	2.5	0
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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
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 : 100 °C 1.0 hr(s)



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Test Report

No. SHAFD1828566101

Date: 10 Jan 2019

Page 6 of 8

<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 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 : 100 °C 1.0 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-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable lead	10	µg/L	5	ND
Extractable cadmium	5	µg/L	2	ND
Extractable chromium (III)	0.004	mg/dm ²	0.004	ND



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Test Report

No. SHAFD1828566101

Date: 10 Jan 2019

Page 7 of 8

Test Item(s)	Limit	Unit	MDL	001
Extractable chromium (VI)	★	mg/dm ²	0.004	ND
Conclusion				PASS

Notes :

- (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.



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Test Report

No. SHAFD1828566101

Date: 10 Jan 2019

Page 8 of 8

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

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

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

Sample photo:



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