

JETWELL GREENTECH LIMITED  
7K, KING PALACE PLAZA, 55 KING YIP STREET, KWUN TONG, HONG KONG

Sample Description : SOILABLE PAPER STRAW ZERO  
Item No. : ZERO SERIES SOILABLE PAPER STRAW  
Manufacturer : JETWELL GREENTECH(DONGGUAN) LIMITED  
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.

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Sample Receiving Date : Mar 29, 2022  
Test Performing Date : Mar 29, 2022 to Apr 13, 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



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

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**Part A SGS Ref No.: CANHG2205367601**
**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—Colour Fastness

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 –Azo Dyes content

PASS

**Test Result(s) :**
**Test Part Description :**

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN22-053676.001	White paper straw w/ transparent coating	Paper+coating

**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—Colour Fastness**

Test Method : With reference to EN 646:2018.

Simulant Used	Time	Temp	Max. Permissible Limit	Result of 001	Comment
3% Acetic acid (W/V) aqueous solution	4hr(s)	23±2℃	★	Grade 5	PASS
Distilled Water	30min(s)	90±3℃	★	Grade 5	PASS



SGS-CSTC (China) Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Hierolines

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Rectified olive oil	30min(s)	120±3°C	★	Grade 5	PASS
Alkaline salt solution	4hr(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 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 0.5hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /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
<b>Comment</b>				<b>PASS</b>

### 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) and BfR Recommendation XXI. 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 –Azo Dyes content**

Test Method : With reference to § 64 LFGB BVL B 82.02.2:2017, analysis was performed by GC-MS/HPLC-DAD.

Determination of 4-aminoazobenzene (CAS No.:60-09-3) with reference to § 64 LFGB BVL B 82.02.15:2017, 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> AZO: A	<u>001</u> AZO: C
4-Aminobiphenyl	92-67-1	★	mg/kg	5	ND	ND
Benzidine	92-87-5	★	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	★	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	★	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	★	mg/kg	5	ND	ND

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u> AZO: A	<u>001</u> AZO: C
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	★	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	★	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	★	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	★	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	★	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	★	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	★	mg/kg	5	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphe nylmethane / 4,4'-methylenedi-o-toluidine	838-88-0	★	mg/kg	5	ND	ND
p-cresidine	120-71-8	★	mg/kg	5	ND	ND



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4,4'-methylene-bis-(2-chloroaniline)	101-14-4	★	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	★	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	★	mg/kg	5	ND	ND
o-toluidine	95-53-4	★	mg/kg	5	ND	ND
<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>AZO: A</u>	<u>001</u> <u>AZO: C</u>
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	★	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	★	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	★	mg/kg	5	ND	ND
O-Anisidine	90-04-0	★	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	★	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	★	mg/kg	5	ND	ND

Comment

PASS

PASS

## Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)
4. Direct reduction (Method A) refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 Clause 10.1 and relevant clauses.
5. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
6. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
7. § 64 LFGB BVL B 82.02.2:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, § 64 LFGB BVL B 82.02.15: 2017 will be employed to verify the presence of 4-AAB.



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★= Prohibited

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:



CAN22-053676.001

Part B SGS Ref No.: GZF22 009029 01

Sample Description :

Specimen No.	SGS Sample ID	Description
1	GZF22-009029.001	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

GZF22-009029.001

Test organism(s)	Concentration of spores	Inhibition zone
Aspergillus niger ATCC 6275	1.0x10 <sup>5</sup> conidia/ml Agar	0mm
Bacillus subtilis ATCC 6633	1.0x10 <sup>4</sup> spores/ml Agar	0mm



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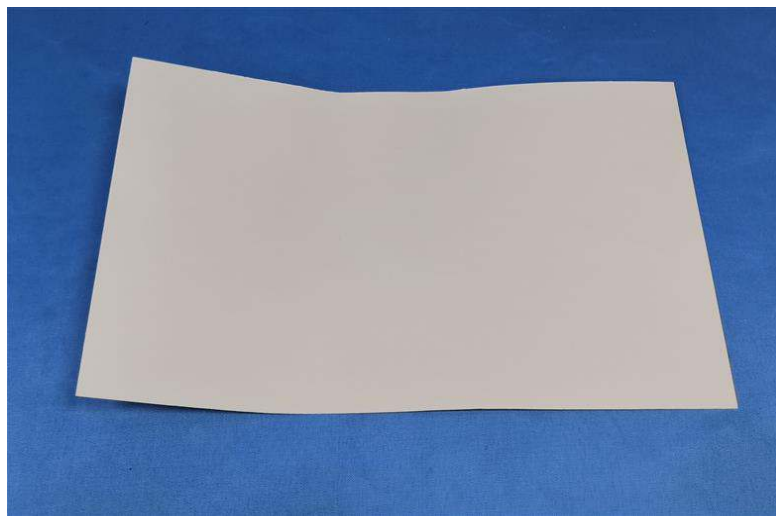
## Test Report

No.: GZHL2203101026CW

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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
Sample photo:		



GZF22-009029.001

\*\*\*End of Report\*\*\*



SGS-CSTC 检测技术有限公司 广州分公司  
Guangzhou Branch Testing Center Headlines

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