

Test Report

No.: NGBEC25001784801

Date: Mar 31, 2025

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Client Name: ZHEJIANG XIANLU NEW MATERIALS CO., LTD

Client Address: NO.1 JUHAI 2RD., QUJIANG DISTRICT, QUZHOU CITY, ZHEJIANG, CHINA

Sample Name: Baking paper

Manufacturer: Zhejiang Xianlu New Materials Co., Ltd.

The above sample(s) and information were provided by the client.

SGS Job No.: NBP25-002136

Sample Receiving Date: Mar 25, 2025

Testing Period: Mar 25, 2025 ~ Mar 31, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

	Test Requirement	Comment
1	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 and 31 with amendments and BfR recommendation - Sensorial examination odour and taste test	Pass
2	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 and 31 with amendments and BfR recommendation - Extractable heavy metals	Pass
3	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 and 31 with amendments and BfR recommendation - Colour Fastness	Pass
4	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 and 31 with amendments and BfR recommendation - Specific Migration of Benzophenone	Pass

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

Tony Li

Tony Li

Approved Signatory

Scan to see the report



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Test Requirement		Comment
5	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 and 31 with amendments and BfR recommendation - Specific Migration of 4-Methylbenzophenone	Pass
6	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 and 31 with amendments and BfR recommendation - Azo Dyes	Pass

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A1	NGB25-0017848-0001.C001	White paper	paper

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
μg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) <= less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No	Specific Migration
A1	6.0 dm ² /kg

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 and 31 with amendments and BfR recommendation - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6

Test Media	Test Condition
Distilled water	A1 100°C, 2 hrs



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Test Item(s)	Limit	Unit(s)	A1
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	1.0
Sensorial examination taste	2.5	-	1.0
Comment			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

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 and 31 with amendments and BfR recommendation - Extractable heavy metals

Test Method: With reference to EN 647:1993, analysis was performed by ICP-MS.

Test Item(s)	Limit	Unit(s)	RL	A1
Extractable Lead	10	µg/L	5	ND
Extractable Cadmium	5	µg/L	2	ND
Extractable Aluminium	1000	µg/L	100	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) Permissible Limit is according to BfR Recommendation XXXVI.
- (2) The result of Chromium (VI) and Chromium (III) are considered as "Not Detected" since the total chromium content determined is "Not Detected".
- (3) The test is not accredited by CNAS.

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 and 31 with amendments and BfR recommendation - Colour Fastness

Test Method: With reference to EN 646:2018.

Simulant used	Test Condition	Limit	A1	Comment
3% Acetic acid (W/V)	23 ± 2 °C, 4 hrs	Grade 5	Grade 5	Pass
Alkaline salt solution	23 ± 2 °C, 4 hrs	Grade 5	Grade 5	Pass
Rectified olive oil	120 ± 3 °C, 0.5 hr	Grade 5	Grade 5	Pass
DI water	90 ± 3 °C, 0.5 hr	Grade 5	Grade 5	Pass



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Notes:

(1) 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 and 31 with amendments and BfR recommendation - Specific Migration of Benzophenone

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

Simulant	Test Condition		
	A1		
Rectified olive oil	200°C, 0.5 hr		

Test Item(s)	Limit	Unit(s)	RL	A1
Rectified olive oil				
Migration times				First
Specific migration of benzophenone	0.6	mg/kg	0.2	ND
Comment				Pass

Notes:

(1) Test condition & simulant were specified by client.
 (2) The test is not accredited by CNAS.

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 and 31 with amendments and BfR recommendation - Specific Migration of 4-Methylbenzophenone

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

Simulant	Test Condition		
	A1		
Rectified olive oil	200°C, 0.5 hr		

Test Item(s)	Limit	Unit(s)	RL	A1
Rectified olive oil				
Migration times				First
Specific migration of 4-Methylbenzophenone	0.2	mg/kg	0.2	ND
Comment				Pass

Notes:

(1) Test condition & simulant were specified by client.
 (2) The test is not accredited by CNAS.

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Test Method: With reference to EN ISO 14362-1:2017, analysis was performed by GC-MS/HPLC-DAD.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1
Direct Reduction*					
4-Aminobiphenyl	92-67-1	Prohibited	mg/kg	5	ND
Benzidine	92-87-5	Prohibited	mg/kg	5	ND
4-Chlor-o-toluidine	95-69-2	Prohibited	mg/kg	5	ND
2-Naphthylamine	91-59-8	Prohibited	mg/kg	5	ND
o-Aminoazotoluene	97-56-3	Prohibited	mg/kg	5	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	Prohibited	mg/kg	5	ND
4-Chloroaniline	106-47-8	Prohibited	mg/kg	5	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	Prohibited	mg/kg	5	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	Prohibited	mg/kg	5	ND
3,3'-Dichlorobenzidine	91-94-1	Prohibited	mg/kg	5	ND
3,3'-Dimethoxybenzidine	119-90-4	Prohibited	mg/kg	5	ND
3,3'-Dimethybenzidine	119-93-7	Prohibited	mg/kg	5	ND
4,4'-methylene-di-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	Prohibited	mg/kg	5	ND
p-Cresidine	120-71-8	Prohibited	mg/kg	5	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	Prohibited	mg/kg	5	ND
4,4'-Oxydianiline	101-80-4	Prohibited	mg/kg	5	ND
4,4'-Thiodianiline	139-65-1	Prohibited	mg/kg	5	ND
o-Toluidine	95-53-4	Prohibited	mg/kg	5	ND
4-Methyl-m-Phenylenediamine/2,4-Toluylenediamine, TDA	95-80-7	Prohibited	mg/kg	5	ND
2,4,5-Trimethylaniline	137-17-7	Prohibited	mg/kg	5	ND
4-Aminoazobenzene	60-09-3	Prohibited	mg/kg	5	ND
O-Anisidine	90-04-0	Prohibited	mg/kg	5	ND
2,4-Xylidine	95-68-1	Prohibited	mg/kg	5	ND
2,6-Xylidine	87-62-7	Prohibited	mg/kg	5	ND
Comment					Pass

Notes:

- (1) Permissible Limit is according to BfR Recommendation XXXVI.
- (2)*Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.
- (3) EN ISO 14362-1:2017 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, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.
- (4) The result interpretation and assessment guide according to Annex C of EN ISO 14362-1:2017 should be taken into account when assessing the source of amine.
- (5) The test is not accredited by CNAS.

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